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The
HEMIST AND DRUGGIST
or RETAILER - WHOLESALER - MANUFACTURER
ished 1859 28 Essex Street, Strand, London, W.C.2 Registered as a Newspaper
313
XL AUGUST 7, 1943 Annual Subscription (with Diary) 25/-. Single Copies 9d.

Many 'hands' make more work - for this family favourite

ational service is finding unaccustomed work
r many hands and creating a new demand for
e antiseptic cleansing properties of Wright's
oal Tar Soap. Never in all its 75 years of use-
iness has Wright's been so widely in demand
the factories as well as the homes of Britain.

WRIGHT'S *Coal Tar Soap*

NSURPASSED FOR PURITY, QUALITY AND MERIT FOR OVER 75 YEARS

WRIGHT, LAYMAN & UMNEY LTD., SOUTHWARK, LONDON, S.E.1

★

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Parke, Davis & Co.

ask for the indulgence of pharmacists towards the firm's endeavours to secure, on the . . . basis of their customers' 1939 orders, a fair . . . distribution of . . . their own officially restricted stocks . . .

MEDICAMENTA VERA

50 BEAK STREET, LONDON, W.1

Inc. U.S.A. Liability Ltd.

how 'Elasto'—It Sells on Sight!

It's advertised as a Chemist's Line

E SHILLING AND SIXPENCE PROFIT ON EVERY SALE

STO' Advertising is Nation-wide and Consistent. An ever-increasing demand for this product is being reated at your very door; a slight effort on your part will bring this new and profitable business to your er. An 'Elasto' showcard displayed in your window will bring most gratifying results. You can recommend o' with confidence for: Varicose Veins, Bad Leg, Piles, Heart Troubles, Rheumatism, Bad Circulation etc. et Remedy easy to handle and reliable.

NEW REDUCED PRICES:	**Retail Price 5/- per pkt.** * Including purchase tax.	**Wholesale 42/- per doz.** * Including purchase tax.

A FEW SHOW CARDS STILL AVAILABLE PATA

he NEW ERA TREATMENT CO. LTD.

DEPT. R

CIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.I

INTERNATIONAL CHEM. CO. LD.

REVISED CONTENTS OF STANDARD PARCELS

OWING to shortage of labour and packing materials (and in order to comply with the Government's demand for utmost economy), we have been compelled to restrict the direct supply of our four main products to pre-packed parcels only. To meet the requests of a number of our customers, we have recently revised our original parcels to the contents shown below. Retailers requiring assortments other than these can obtain from their Wholesalers.

The minimum for a direct order remains at £5, which can be made up by parcel 'A'; or by any two of parcels 'B' to 'O'; or by any one of 'B' to 'O' plus a selection of our other preparations, such as Alkia Saltrates, Bisuroids, Nemakol and Nemolin. Toilet lines may also be included to the value of your quota.

Co-operation allowances: On orders of £5.....7½% £10.....10%

A

1 doz. 1/5 Bismag Powder	...	12	0
½ ,, 2/10 ,, ,,	...	12	0
2 ,, 1/5 ,, Tablets	...	1 4	0
1 ,, 2/10 ,, ,,	...	1 4	0
1 ,, 1/9 Pineate Honey Cough-Syrup	...	13	9
1 ,, 2/3 Limestone Phosphate		18	0
1 ,, 1/5 Freezone Corn Remover		11	3
		£5 15	0
Purchase Tax on all goods and on bonus		1 1	1
		£6 16	1

B

3 doz. 1/5 Bismag Powder	...	1 16	0
1 ,, 2/10 ,, ,,	...	1 4	0
		£3 0	0
Purchase Tax on above and on bonus		11	8
		£3 11	8

C

3 doz. 1/5 Bismag Tablets	...	1 16	0
1 ,, 2/10 ,, ,,	...	1 4	0
		£3 0	0
Purchase Tax on above and on bonus		11	8
		£3 11	8

D

1 doz. 1/5 Bismag Powder	...	12	0
2 ,, 1/5 ,, Tablets	...	1 4	0
1 ,, 2/10 ,, ,,	...	1 4	0
		£3 0	0
Purchase Tax on above and on bonus		11	8
		£3 11	8

E

1 doz. 1/5 Bismag Powder	...	12	0
½ ,, 2/10 ,, ,,	...	12	0
2 ,, 1/5 ,, Tablets	...	1 4	0
½ ,, 2/10 ,, ,,	...	12	0
		£3 0	0
Purchase Tax on above and on bonus		11	8
		£3 11	8

F

1 doz. 2/10 Bismag Powder	...	1 4	0
1½ ,, 2/10 ,, Tablets	...	1 16	0
		£3 0	0
Purchase Tax on above and on bonus		11	8
		£3 11	8

H

1½ doz. 1/5 Bismag Powder	...	18	0
3 ,, 1/5 ,, Tablets	...	1 16	0
		£2 14	0
Purchase Tax on above and on bonus		10	6
		£3 4	6

J

2 doz. 1/5 Freezone Corn Remover ...	...	1 2	6
1 ,, 2/3 Limestone Phosphate		18	0
1 ,, 1/9 Pineate Honey Cough-Syrup ...	...	13	9
		£2 14	3
Purchase Tax	...	9	0
		£3 3	3

K This parcel containing 'Pineate' Honey Cough Syrup suspended during the summer months.

L

6 doz. 1/5 Freezone Corn Remover	...	3 7	6
Purchase Tax	...	11	3
		£3 18	9

N

2 doz. 1/5 Freezone Corn Remover	...	1 2	6
2 ,, 1/9 Pineate Honey Cough-Syrup ...	...	1 7	6
		£2 10	0
Purchase Tax	...	8	4
		£2 18	4

O

3 doz. 2/3 Limestone Phosphate		2 14	0
Purchase Tax	...	9	0
		£3 3	0

Above consumer prices include Purchase Tax

BONUS TERMS: 14 to the dozen on 'Bisurated' Magnesia Powder and Tablets in return for fourteen days' window display. 'Bisurated' Magnesia Powder—Bonus in Mint Powder. 'Bisurated' Magnesia Tablets — Bonus in Tablets.

All goods sent Carriage Paid in returnable boxes

CLIFTON HOUSE, EUSTON ROAD, LONDON, N.W.1

MEDICAL EVANS SUPPLIES

ACTIVE EXTRACTS

manufactured from materials of the highest quality by methods which retain the full therapeutic activity of the drug

EVANS SONS LESCHER & WEBB LTD.,
Liverpool and London

GOVERNMENT ORDER (S.R. & O. 1366)

REVISED PACKING FOR BOB MARTIN'S

CONDITION POWDER TABLETS

The number of sizes in which pre-packed goods can be sent out, and the quantity in each size, is limited by the provisions of the above order. In the case of tablets for veterinary use the second size must be at least four times as big as the smallest. Accordingly, Bob Martin's Condition Powder Tablets will be packed in 9's and 36's only.

The new 36-tablet size retails at 1/11. This gives the purchaser th same ratio of value as the previou 1/1½ packet (containing 21 tablets which is now deleted from the range To avoid delay, orders received afte May 17 will be filled with the ne 1/11 carton to approximately th same value as the 1/1½ size ordere We regret that owing to paper r strictions we have been unable to giv the Trade full notice of the chang

BOB MARTIN LTD., SOUTHPORT, LANCS.

ESTABLISHED 1878
FOR
LABELS
CARTONS
ENVELOPES
AND EVERY DESCRIPTION
of
IEDICAL PRINTING
Write to
LF. HARRISON & SONS, LTD.
THE CHEMISTS' PRINTERS
BURLEY ROAD
LEEDS, 4

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'CALFOS' REGD. Tablets

The Natural Calcium Compound

'Calfos,' which is derived from natural sources, supplies calcium and phosphorus in a palatable, concentrated form which ensures absorption in the correct physiological ratio.

Widely advertised to the medical profession

CALFOS LTD.
IMPERIAL HOUSE,
KINGSWAY, W.C.2
Temple Bar 3629

TRADE & RETAIL PRICES

	Face Price Exclusive of Tax	*TRADE PRICE per dozen*	*Purchase Tax per dozen*	*Minimum Retail Price including Pur. Tax*
Box of 50 tablets	2/6	20/-	3/4	2/9½
Box of 120 tablets	4/9	38/-	6/4	5/3½

Special terms are available for hospital packs

DISPLAY CARD ON REQUEST

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ALBUCID

The Series

ALBUCID
Tablets *Tubes of 20 and bottles of 500 x 7½ grains*
Powder *Sterile Ampoules of 5,10 and 15 grams.*

ALBUCID SOLUBLE
Ampoules *Boxes of 5 x 5 cc. x 30%*
Burn and Wound Dressing *1 oz. tubes, 4 oz. pots, 1 lb. jars*
First Aid Dressing *1 oz. tubes and 1 lb. jars*
Eye Drops ½ *oz. bottles of 10% and 30%*
Eye Lotion Tablets *Tubes of 12 and boxes of 250 x 0.25 grm.*
Eye Ointment *Tubes of 25 grams. x 2.5%*
Naso-Pharyngeal Solution *Bottles of 1 oz. x 10%*
Powder *Bottles of ½ oz., 1 oz. and 8 oz.*
Sterile Ampoules of 5, 10 and 15 grams.

ALBUCID

'Albucid' is the registered name which distinguishes Sulphacetamide of British Schering manufacture

Details and prices gladly sent on request

BRITISH SCHERING LIMITED 185-190, HIGH HOLBORN, LONDON, W.
ASSOCIATED COMPANIES: *British Schering Research Laboratories Ltd., Alderley Edge, Cheshire.*
British Schering Manufacturing Laboratories Ltd., Pendleton, Lancs.

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The Sign of Reliability

The Name the public associates with Quality after 32 years of trial

Ucal

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UCAL WORKS, CHELTENHAM

Trust

Complexion Powder & Lipstick

6 shades packed in colourful boxes and powder-proof bags. RACHELLE, NATURAL, PEACH, OCHREROSE ROSETAN, CREOLE. Your Orders for this Nationally Advertised Complexion Powder can be executed promptly.

4/- & 1/4 INCLUDING TAX

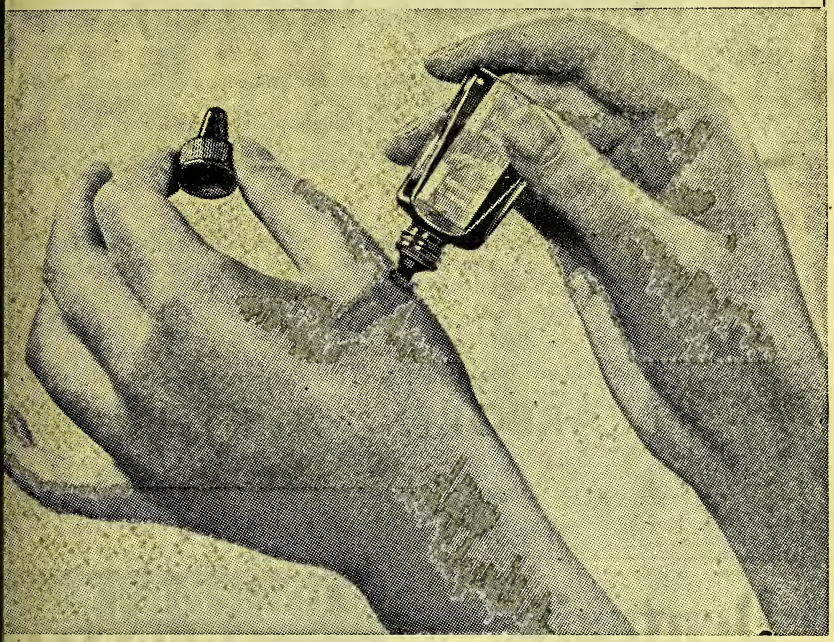
Orders for Lipstick Refills accepted for delivery as and when available under quota restrictions.

All enquiries to-

ANDERSON & REEVES LTD

157/161 REGENT STREET · W·1 · REG·1965

THE ADVANCED WAY TO APPLY IODINE



E IS the perfect way to apply iodine. Practical, simple — requiring no brush or on wool to absorb or waste the iodine. Designed for the pocket, handbag or First- kit, the slim bottle has a fitted fountain-brush head (Patented) with a controlled feed ready for instant and accurate application.

This sensible and ingenious solution of a pack problem fulfils a wartime need and cannot fail to stimulate the sale of a product already in steady demand.

MINER'S

Applijodine

TRADE MARK

PLEASE NOTE NEW PRICES:

9d. SIZE... *6/- per doz....plus 1/- per doz. purchase tax.*
1/6 SIZE...*12/- per doz....plus 2/- per doz. purchase tax.*

CASH DISCOUNT: *5% on half-gross orders, 10% on gross orders.*

Protected by the P. A. T. A.

itish Patent No. 494991

LEAK-PROOF
SPILL-PROOF

From your regular wholesaler or direct from HENRY C. MINER LTD., 7 Stanhope Terrace, W.2.

Available for Immediate Delivery

PILENTA TOILET SOAP.

Chemists will be glad to hear that we can offer immediate delivery of limited reasonable quantities of Pilenta Toilet Soap.
This de luxe Soap has always held a high place in the regard of the discriminating.
Full 3-oz. Tablets, **1/3½d.** retail, including purchase tax. Wholesale, 10/- per dozen, plus 3/4 tax.

CLYNOL BERRIES FOR OBESITY.

We are glad to announce that we have now sufficient stocks of Clynol Berries to last with care for some time to come. We regret that circumstances beyond our control have kept us out of stock for so long.

Prices: WHOLESALE, **32/-** per dozen, plus 5/4 tax. RETAIL **4/5½d.**

(Both on the P.A.T.A. List)

It would be wise not to delay in placing your order.

DEARBORN (1923) LTD.

Hellidon House, Hellidon, Nr. Daventry, Northants

Dentesive

THE NEW BETTER TYPE FIXATIVE

"Squeezed from a tube"

HOLDS FIRMER AND THREE TIMES LONGER THAN ORDINARY FIXATIVES

Price 7½*d and* 1/3

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LONG OVERAL COATS

Men's. White or Kha at **13/9, 15/-.**

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Coats and Overalls: 3 coupor

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Jackets: 2 coupons.

State Chest measuremer Cash and coupons with orde Satisfaction Guaranteed.

Postage: 1 coat, 7d.; 2 coa 9d. Postage paid on orde over 20/-.

GARDINER & CO. (THE SCOTCH HOUSE) LTD

1, 3 & 5 COMMERCIAL ROAD, LONDON, E

Opposite Aldgate East Station
'Phone: BIS 6751 (3 lines)

VANT RAZOR BLADES?

GET MULTISHAVES!

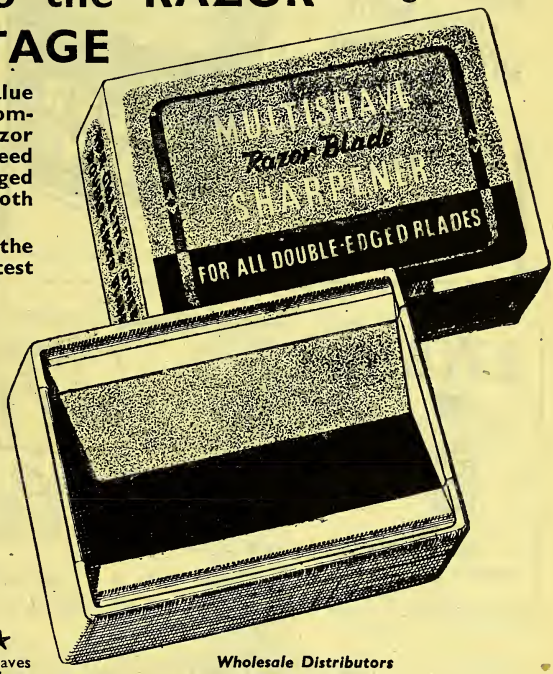
ne Solution to the RAZOR LADE SHORTAGE

ressive Chemists who value customers' confidence recom- d the Multishave Safety Razor e Sharpener — the guaranteed pener that makes double-edged es give many extra smooth es.

sharpening agent used in the tishave is the finest, fastest ing abrasive known.

bluntest blade, even if it been stropped or rubbed tumbler until it is be- l hope, can be given a edge in ten seconds with Multishave.

ideal for men in the Forces, is a thoughtful gift.



customers must shave. If you are of blades, sell Multishaves. You fourpence-halfpenny profit on each have outfit. Retail price 1/6, ing purchase tax. Trade price 6/8 ozen, plus 6/8 purchase tax. Packed dozen to a carton, complete with showcards.

SPECIAL OFFER ★

eate a large sale immediately for Multishaves ur district, to your advantage, in considera- of your order for 12 cartons each 3 doz. have Safety Razor Blade Sharpeners U GET FREE OF CHARGE ekly advertisements in your local evening or ly newspaper, mentioning your name only ultishave stockists. This advertising sells Multishaves for you.

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DER MULTISHAVE OUTFITS FROM YOUR WHOLESALER

or send direct to

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Telephone: GULLIVER 1467

'SUPER SHAVE' for Super Sales

and for the perfect BRUSHLESS shave with after-shaving freshness!

'SUPER SHAVE,' the last word brushless shaving creams is fast coming first favourite. . . . Dis and recommend 'SUPER SHA and see how it speeds up sale well as speeding up shaving.

'SUPER SHAVE' represents SU VALUE plus QUALITY to merit y confident recommendation. Stock NOW for steady, satisfactory sa

BRUSHLESS
SUPER SHAVE
SOAPLESS

RETAILS AT
1/10 4 oz. Jar
Terms on application

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Distinctive designs which give a finishing touch of high quality.

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★ THOSE SPECIALISTS WHO MAKE THEIR OWN COSMET

HAVE THE CHOICE OF

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Fighting and working in the National interest we cannot make our usual contacts

John Britain

Representing CUXSON GERRARD & CO., LTD., OLDBURY

Please send on your orders direct —they will receive every consideration.

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"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED AND SEAMLESS

For special garments to measure we give the best possible service

SURGICAL BELTS TRUSSES AND SUNDRIES

50 years' service of everything Surgical

SURGICAL HOSIERY CO. LTD.

Russell Street - NOTTINGHAM

Telephone No.75903 Telegrams: Surgical Nottm.

THE "MATER" CLINICAL REGD.

The position of the Mercury column is at once perfectly plain. Red markings above 99.4.

ALL TYPES OF CLINICAL AND OTHER THERMOMETERS

PERKEN, SON & CO. LTD.

(ESTABLISHED 1852)

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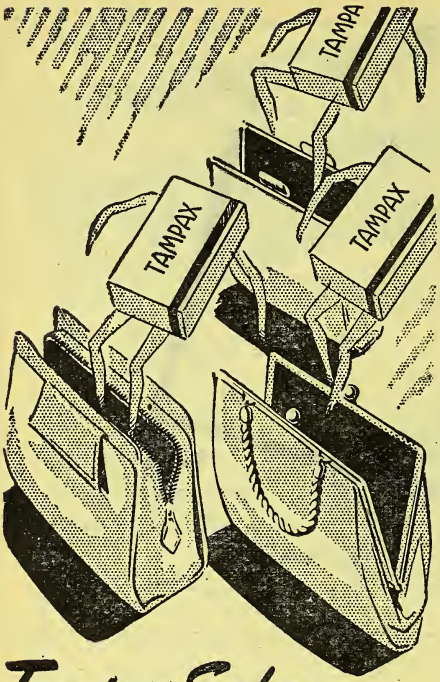

Tampax Sales are more than lively!

Personal recommendations and consistent advertising are bringing new business for Tampax every week. And new Tampax business means two things—both acceptable to the dealer in these days. Every sale starts a steady *repeat* demand. And every customer who comes in for Tampax usually goes out with other purchases as well!

TAMPAX TRADE TERMS

P.A.T.A. PRICES:

Pkts. of 3. **Wholesale 5/3 doz. Retail 7d. pkt.**
" " 10. " **15/9** " " **1/9** "

Manufactured in England by
Tampax Limited, *Belvue Road, Northolt, Middx.*

Sole Distributors: SPLENDOR LTD., 5 Beastmarket Hill, Nottingham, & 7c Lower Belgrave Street, London, S.W.1

SUPERIOR QUALITY

LEATHER WRIST STRAP

for industrial workers and sport. Made of best quality leather with nickel plated buckles.

8/3 per doz. excl. P.T. where applicable

LEATHER FINGERSTALL

oversewn edges, in eight sizes, perfectly finished with tape, dozen bundles.

37/6 per gr. equally assorted in gr. lots

Money refunded if unsatisfied

Samples of 8 Fingerstalls and 1 Wrist Strap 3/- post paid

Trade enquiries solicited

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Clyde Road, MANCHESTER 20

AGENTS FOR DELEAS & CO.

BATTLE'S VERMIN KILLER

IN PACKETS
5d., 9d., 1/3, 2/6, 5/-, P.A.T.A.
WHOLESALE AT
3/-, 5/6, 9/-, 18/-, 36/- per doz.
Order some today from your wholesaler

"RODINE" REGD
RAPID RAT REMOVER
Always in demand!
T. HARLEY LTD., PERTH, SCOTLAND

Elastoplast
TRADE MARK BRAND
BANDAGES & DRESSINGS
Prescribed by the Medical Profession
T. J. SMITH & NEPHEW, LTD. NEPTUNE ST., HULL

How Deep is the Ocean

Having no Admiralty Charts about us, we cannot say, in fathoms, how deep *is* the ocean, but we do know to an inch the depth of the Koray stockrooms. Up to now, we have found little difficulty in supplying all requirements. We are now, however, dependent entirely upon current production and consequently, unless it is very fairly and evenly distributed, Koray may come into short supply in some parts of the country almost at once. We do not wish this to happen. But, circumstances alter cases—if we keep you waiting, if your order is not completely fulfilled, remember it is only because Koray, like most good things, is on strictly limited supply.

KORAY LIMITED, LONDON AND BLACKPOOL

A Little "Blue Sky"

There are still vacancies in one or two parts of the country for wholesale distributors for Koray. Wholesalers are therefore invited to get in touch with us so that these blanks may be be filled in and equal distribution secured. Please write us.

KORAY

KILLS PAIN *QUICKER*

Koray is the registered trade-mark for the specific analgesic anti-pyretic tablet manufactured by Koray Limited.

IF IT'S A ? OF BABIE

YOU CAN RECOMMEND

SCOTT'S MOF MIDLOTHIAN OAT FOOD

WITH CONFIDENCE

M.O.F. has been known to the Medical Profession for many years as a splendid body-building food that is processed from the finest Scottish Groats.

M.O.F. is highly recommended for Expectant and Nursing Mothers, Weaning Infants and for Invalids, great care being taken in its manufacture to ensure that its natural Vitamin B content is preserved.

A DOCTOR WRITES: "M.O.F. is an ideal food both before and after the arrival of the baby . . . It promotes lactation and helps to ensure a rapid and satisfactory convalescence." M.D., F.R.C.S.E.

RETAIL PRICE 1/9 per 1 lb. tin

FOR EXPECTANT AND NURSING MOTHERS WEANING INFANTS AND INVALIDS

Specially processed from the finest Scottish Groats by **A. & R. SCOTT LTD.,**

COLINTON, MIDLOTHIAN, SCOTLAND

SCOTT'S MOF MIDLOTHIAN OAT FOOD

The Certificate of the Royal Institute of Public Health & Hygiene has been awarded in respect of M.O.F.

RANSOM

Actual growers of

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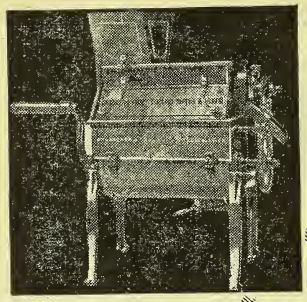

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★ *See also J. Amer. med. Ass.*, 1941, 117, 1415 and *Brit. med. J.*, 1942, 1, 12, and 1943, 1, 318.

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NEWS OF THE WEEK

P. Addendum.—The Sixth Addendum ie British Pharmacopœia, 1932, be- official on August 1, 1943. Copies are available from Constable & Co., 10 Orange Street, Leicester Square, on, W.C.2.

ndon Court of Arbitration.—The annual ng of the London Court of Arbitration held at the London Chamber of nerce on July 28, when Mr. J. McLean elected *Chairman* and Captain Alfred ne, J.P., *Deputy-chairman* for the The chairman said the Court com- d twelve representatives of the Corpora- of the City of London and twelve of the on Chamber of Commerce. It recom- ed insertion of the following arbitra- clause in all commercial contracts: construction, validity and perform- of this contract shall be governed by aw of England and all disputes which arise under, out of, or in connexion with or in relation to this contract shall be submitted to the arbitration of the London Court of Arbitration under and in accordance with its rules at the date hereof. The parties hereto agree that service of any notices in the course of such arbitration at their address as given in this contract shall be valid and sufficient."

Soft Drinks.—The Ministry of Food desires to remind both traders and the public that the Soft Drinks Order, 1943 (S. R. & O., 838), came into full operation on July 31. This means that from that date the maximum prices laid down in the Order apply to all sales by wholesalers and retailers, and that all soft drinks sold by them must conform to the provisions of the Order in respect of their ingredients. Sales of soft drinks by a caterer for consumption on his premises, or elsewhere where catering services are provided, are exempt from these provisions of the Order.

Eire Examination Results.—The following passed the July Assistants' examination held by the Pharmaceutical Society of Ireland: Mary Banahan, Sheila Barry, Nora Genevieve Burns, Irene Clifford Connolly, Jeremiah Murphy, Jeremiah Ryan, Edmund Power, Eily Sheehan. Thirty-one candidates presented themselves.

Licence Applications.—C. Wall & Co. have made application to the North-western Price Regulation Committee, Manchester, for permission to carry on the business of a drug store at 70 Woolfall Heath Avenue, Huyton, near Liverpool.—Mr. D. McDermott, M.P.S., has made application for permission to carry on the retail business of a qualified chemist at 296 Old Chester Road, Rock Ferry.

Inquest.—At an inquest at Chester recently on George Reeves, the Coroner returned a verdict that death was due to shock through drinking a corrosive poison, there being not sufficient evidence to determine whether the drinking was due to a mistake. Reeves told the police that he had two bottles in his pocket, one containing beer and another spirits of salts, and that he accidentally drank out of the wrong bottle.

Irish Chemists' Golf.—Under fine weather conditions and with an excellent attendance the Irish Chemists' Golfing Society held a competition at Clontarf Golf Club on July 14 for prizes presented by P. C. Cahill & Co., Ltd. Mr. J. Gleeson (president of the Pharmaceutical Society of Ireland) was among those present. The competition was an eighteen-holes strokes and the winner was Mr. J. Mason (12), seventy, the second prize going to Mr. P. McAuliffe (13), seventy-two. Cup winners were Messrs. S. Savage (first nine holes), and W. R. Such (second nine holes). In the absence of the captain, Mr. Joseph Gorry, Naas, presided at a supper held subsequently at the club-house, at which he presented the prizes and said he was glad to see the Society so well supported by the younger members of the profession. He hoped that interest would continue to grow and still more new members come in. On the motion of Mr. Mason, seconded by Mr. McAuliffe, a hearty vote of thanks was passed to the donors of the prizes. Mr. P. C. Cahill, in reply, said his company was glad to have an opportunity of being identified in this way with the Society. Thanks to the Clontarf Golf Club for the use of the course was voted on the motion of Mr. Such, seconded by Mr. Savage, Mr. M. Costelloe replying f Club. The next outing will be held at Golf Club on August 18, when compet will be held for prizes presented by prietaries (Eire), Ltd., and by Ha Brothers.

Three Resolutions from Eastbou At a meeting of the Eastbourne Ph cists' Association held on July 20 the f ing resolutions were passed: "Tha meeting of Eastbourne pharmacis unanimously in favour of a Pharmacy mission under the Ministry of H formed with the closest co-operatio tween the National Pharmaceutical and the Pharmaceutical Society, to c all matters pharmaceutical."

"Under the medical service all dispe should be done by pharmacists in regis pharmacies, which constitute the convenient and economic service, taining the friendly atmosphere proved so valuable in the smooth w of the National Health Insurance serv

"All hospitals and institutions w dispensary should have a pharmaci charge."

Dublin Smoking Concert.—Under auspices of the Pharmaceutical Che and Students' Social Committee, a sm concert was held in Dublin on July 2 addition to a fine musical programme was a draw for the committee's sweep on the Galway Plate. The draw wa sided over by Messrs. J. Gleeson (presi Pharmaceutical Society of Ireland), Meagher (president, Irish Drug Associa and P. C. Cahill (treasurer, Pharmace Society of Ireland). The lucky ones drew horses included chemists fron parts of Ireland. Mr. Joe Treacy (c man of the Social Committee) welc the guests and the many friends pre and expressed the hope that the Comm would continue to receive widesp support to enable them to achieve object of providing pharmaceutical che and students in Dublin with a sui club. Mr. Treacy stressed the need centre of this kind to provide recreat and social facilities. Especially he app to country members for more co-opera as they would derive much benefit such a club on their visits to Du Messrs. Gleeson, Meagher and C thanked the chairman for the invita extended to them, and the enjoyable e ing provided, promising the fullest sup possible of the bodies they represente the objects as set forth by the commit

EMPIRE AND FOREIGN NEWS

on Sutures for United Nations.—Quan- of Nylon sutures are being made for g at medical depôts of the United ns throughout the world.

th American Chemical Congress.— fourth South American Chemical ess was held in Santiago de Chile nuary of this year. A main theme of sion was present world mineral ces.

rning to Cosmetic Distributors.—The of Price Administration of the Federal nment of the United States of America ssued a warning to manufacturers listributors of cosmetics that it is to make the sale of a cosmetic ration conditional on the purchase er articles, unless it was previously an ted trade practice for the two items sold only together.

are Used Medicinally.—At a meet- of the Montreal Medico-Chirurgical y recently an account was given introduction into and use in clini- edicine, of curare, the arrow poison by South American natives. The ncement stated: "Curare, an old ar drug in the physiological labora- has recently come into clinical use ychiatric hospitals for the purpose inimising the traumatic effects of lsions during metrazol or electric therapy. We administered curare to atients under light general anæsthesia, n each case were able to reduce ete temporary muscular relaxation ut any demonstrable harmful effect. a drug may be at times of great help surgeon and the anæsthetist."

a for Uncommercial Pharmacy.—The nal Health Services Commission in the of South Africa was still taking ice in mid-April, when Mr. R. N. van Berg, a chemist and druggist from -west Africa, made a special journey pe Town to give evidence about the ice of pharmacy in that territory. Mr. en Berg felt that "pharmacy must be iated from commerce," as under exist- onditions the best service could not ven to the public. In Southern Africa, aid, the market was flooded with less "patent" medicines, whose pro- rs amassed fortunes by playing upon credulity of a foolish public. He tted that some of the preparations beneficial, particularly when they were product of prescriptions by eminent physicians, yet the fact that the patient was often his own diagnostician militated against the efficacy of such medicines. Whether these specifics were suitable for all the cases they were supposed to cure was no concern of the manufacturer, who was in reality exploiting public ill-health for the sake of his pocket. Under existing conditions the chemist in Southern Africa was forced to derive about half his income by selling such "quack" remedies. This position, in his view, was nothing short of scandalous. Of all the health services in the country pharmacy presented the strongest case for nationalisation, not only with the idea of restoring the chemist and druggist to his proper position as a professional man, but also for the purpose of eliminating the present exploitation of fear of illness by unprofessional profit-seeking individuals and medicine companies. He was convinced that pharmacy must be dissociated from commerce if it was to survive for the general benefit of the nation. Nationalisation would not only improve the status of all the professions concerned, but would prove to be the only method of providing health services to every citizen. By enabling every member of the community to obtain all health services free the mental and moral outlook of the whole nation would undergo a big change.

Purchase Price Refunded.—Interpreting in plaintiff's favour what the Court termed a contract of a "rather special character," Mr. Justice Tyndale in the Superior Court at Quebec, on May 3, delivered judgment under which the Laboratoire Pasteur, Ltd., were to pay Alexandre Charlebois, Oka, Quebec, $295, representing the value of the goods which Charlebois purchased from the company on the understanding that they were to be returned and the purchase price refunded on certain conditions set out in the contract. Charlebois contracted to stock his shop with pharmaceutical goods supplied by the company, which agreed to "take back the goods and reimburse the purchase price, with interest, if, in three months, plaintiff was not satisfied." Plaintiff took delivery of the goods, paid the purchase price, and on May 19, 1942, invoked the contract to recover the purchase price. Defendant company pleaded that the transaction was a sale pure and simple and not a consignment; that the goods were satisfactory; that plaintiff made no complaint and was therefore not entitled to return the goods.

TOPICAL REFLECTIONS

Conference Chairman's Address

The difficulty inherent in the composition of a second address by a chairman of the British Pharmaceutical Conference has been skilfully surmounted by Dr. T. E. Wallis (p. 114). Not venturing to put a question on this subject to any chairman of the Conference that I have met, I have sometimes wondered how, after using much excellent material in preparing a survey, a scientist sets about the task of attempting to repeat his success in the chair. Dr. Wallis has solved this problem by advancing from the particular to the general, from a conspectus of British pharmacognosy to a consideration of the basic principles of research. His thoughtful address will, I trust, be read with the careful attention it merits. My space does not permit quotation; but I may illustrate from another point of view the chairman's wise remark about "getting away from the textbooks." In the autobiography of Arthur Waugh there is a passage (cited in Sir Charles Oman's "Memories of Victorian Oxford") revealing in a flash, so to say, the difference between the pedestrian collector of facts and the true student or scholar. "I shall always remember the first essay that I ever took to Professor Oman, and the devastating criticism that it evoked. He had told me to write an estimate of Cicero. He . . . told me to read it to him. 'Marcus Tullius Cicero,' I began, 'was born at Arpinum on January 3, 106 B.C.' 'No, never,' cried my tutor, 'under any circumstances, begin an essay like that.'"

Pharmacy Act, 1868

The seventy-fifth anniversary of the passing of the Pharmacy Act of 1868 is an event well worth the notice you have accorded it (p. 120). Pharmacists who, as the phrase goes, were brought up on it have, in my experience, agreed that it is a good Act; and their testimony is of value. As the writer of an article in your issue of April 12, 1941, pointed out, the statutory association of a pharmaceutical qualification with the sale of poisons may be traced to the well-known incident of poisoning by peppermint lozenges purchased at a market stall in Bradford in 1858. It is of interest, however, to go back to the preceding year, for the sake of showing what chemists may have to contend with when legislation on a subject of this kind is introduced without prior consultation with them. In May 1857 the Go ment of the day brought in a Bil restrict and regulate the sale of poi It was proposed to repeal the Arseni of 1851 while applying its provisio various substances. Every purchase poison was to be "of full age"; a w knowing the purchaser was to be p at the sale; and a certificate of compe signed by a clergyman, medical p tioner or justice of the peace was produced. Each sale had to be rec Packets containing poison were t wrapped in tinfoil as well as in p Solids were to be coloured with so indigo and liquids with solution of a unless it was certified that such colo would render the poison unfit for use. dors were to keep poisons under loc key in prescribed containers; and second conviction for an offence they to be permanently prohibited from s poisons and from carrying on the bu of a chemist and druggist.

The Impracticable

Although the impracticability of Bill as a whole was pointed out by Pharmaceutical Society, it got as f reference to a Select Committee. certain evidence had been taken, Committee proposed that poisons shou sold only by medical practitioners licensed persons: licences were t conditional on passing an examina The six examiners, or any two of t were empowered to enter and search s where poisons were sold—a reminis of an old power of the Royal Colleg Physicians. The Bill was reintrod but before it could be discussed the Go ment was defeated and resigned. The Government evolved a Poisons Bil somewhat different lines. Medical pr tioners and pharmaceutical chemists to be recognised as vendors of poisons, other dealers would have to underg examination. Persons who could p that they had been in business for a ye chemists and druggists were to be exe from this requirement, but would hav apply for a renewal of licence after years. The number of examiners was duced to three. The Premier ignored protests of the Pharmaceutical Soci and carried the Bill in the House of Lo in the Commons, however, it was w drawn, after some strenuous opposition July 1858.

Xrayse

LEGAL REPORTS

t Preparations Order.—Lipstick was stated to have been supplied pproval" without a label by the acturers was the subject of proceed- t Clerkenwell Police Court, London, y 29, when Herbert Richard Wiltshire, rthaw Road, Cuffley; Ronald John am, 84 Southcote Road, Bourne- ; and Thomas Finton Laler, 79 The ians, Shepherds Bush, London; ed on remand upon a charge of ring together to contravene the ons of the Toilet Preparations Order, This charge was now withdrawn in of summonses against Markham and and also against Markham, Wiltshire , Ltd., 27 Fitzroy Street, London, for unlawfully supplying controlled —namely, lipstick—in containers were not marked in accordance with 6 of the Toilet Preparations Order, Wiltshire was accordingly discharged. . Whiteway, solicitor, appeared on of the company and of Markham aler, who pleaded guilty to the nses.

the Board of Trade it was pointed at containers of toilet preparations be labelled in order that the quota tions could be properly enforced. ne 9 the defendant Laler came to the and gave evidence on behalf of her persons. He said that he was a or of Markham, Wiltshire & Co., Ltd., hat the lipstick concerned in that ution was manufactured by them. bels were not ready and it was sent n-labelled. It was said, remarked l, that the labels were supplied but mis-printed and were not used for eason. This had been confirmed, on y. Markham, Wiltshire & Co., were egistered manufacturers, but had over the quota of another firm.

Whiteway said he could speak with uthority, because he acted for one or well-known companies who manu- ed cosmetics, and he could say that pposition to the activities of un- ered manufacturers came from the old- ished companies, who had spent nds of pounds upon advertising and ch and did not want to see fresh people along and take advantage of the on by putting lipstick on the market their own output was curtailed. osition with regard to the labels was as the supply had been wrongly d they sent out some lipstick on approval, with the notification that fresh labels would follow when they were ready.

The magistrate said he thought he could properly treat this as a technical offence. The company was fined 40s. and the summonses against Markham and Laler were dismissed on payment of costs.

COMPANY NEWS

S. & I. Bond, Ltd. (P.C.).—Capital £1000. Manufacturing, research, dispensing and analytical chemists, etc. Directors not named. R.O.: 29–30 Cornhill, London.

Arco (Laboratories), Ltd. (P.C.).—Capital £2,500. Laboratory proprietors, research workers, analytical and consulting chemists, etc. Directors not named. R.O.: 10-11 St. Dunstans Lane, London, E.C.3.

R. C. Keay (1943), Ltd. (P.C.).—Capital £1,000. To acquire the business of a retail chemist at 51 Dalton Road, Barrow-in-Furness (R.O.). Richard C. Keay, M.P.S., and Gladys W. Keay, directors.

Myrose, Ltd. (P.C.).—Capital £1,000. Manufacturers of and dealers in perfumes and toilet requisites; manufacturing, wholesale and retail chemists, etc. Amy Rose, director. R.O.: 25 Old Bond Street, London, W.1.

Gilbert J. Doel, Ltd. (P.C.).—Capital £2,000. Manufacturing chemists' sundriesmen, manufacturers of and dealers in toilet goods, drugs, surgical goods, etc. Gilbert J. and Una E. E. Doel, directors. R.O.: 63 Coleman Street, London, E.C.2.

British Disinfectant Co., Ltd. (P.C.).—Capital £10,000. Manufacturers and packers of and dealers in disinfectants, antiseptics, pest-control products, etc. Lewis T. and Elsie V. Edwards, directors. R.O.: South Grove, South Tottenham, London, N.15.

Irving's Yeast-Vite, Ltd.—Mr. P. G. Hunt (general manager) has been elected a director of that company and of Yeast-Vite, Ltd. Mr. Hunt was recently appointed chairman of the manufacturers' section and vice-president of the Proprietary Articles Trade Association in succession to the late Mr. G. M. Garcia.

Voluntary Liquidation.—A meeting of members of the India Rubber Manufacturers' Association, Ltd., will be held at 40 South King Street, Manchester, 2, at 11 a.m., on August 23 to learn how the company's winding-up has been conducted.

TRADE NOTES

Lipstick Containers.—Containers in red and black, to take standard lipsticks, are offered by Ashley & Weeks, Ltd. (Dept. D), 165A-B Mitcham Road, Tooting, London, S.W.17.

Annual Holiday.—Alfred Franks & Bartlett Co., Ltd., Audrey House, Ely Place, E.C.1, will remain closed until August 16, before which date goods cannot be received or dispatched.

Soapless Washer for Fabrics.—Mam'-sel soapless concentrate is put forward for the safe washing of stockings, underwear, woollens and all delicate fabrics, by Baldwin Chemical Industries, Ltd., Waltham Cross, Herts.

Smallwares.—J. C. Brown & Co., wholesale warehousemen, Dept CD, 115 Seymour Road, Romford, Essex, claim to be the cheapest house in the trade for smallwares and fancy goods. Chemists are invited to send a 2d. stamp for price list.

Unlimited Supplies Available.—Pharmax, Ltd., Ibex House, Minories, London, E.C.3, announce that unlimited supplies of Diuromil and Ralgex are again available. Supplies can be obtained at once either from the wholesale houses or direct from the firm.

In Growing Demand.—G. T. Fulford Co. (of Canada), 8 Royston Park Road, Hatch End, Middlesex, are regularly advertising Bablets ("Baby's Own Tablets") and Pinkettes ("The Liver Pill You Need"). Stocks are available through wholesalers.

Advertisement Campaign.—Advertisements for Stenhouse pills as a relief against rheumatic pains are being placed in the "Glasgow Sunday Post and Sunday Mail" and the "Newcastle Sunday Sun" by the makers, The Stenhouse Pills, Ltd., Guiseley, nr. Leeds.

Perfume Emulsifier.—Anglo-Dutch Pharmaceutical Co., 56 Viceroy Close, Birmingham, 5, have devised a speciality, Wynsomul, as a substitute for alcohol in the manufacture of perfume. This gives a clear solution with essential oils when the correct amount—found by test—is added. The product is available in 7-, 14-, 28- and 56-lb. drums, and inquiries are invited from distributors.

Eptoin.—Samples of and literature about Eptoin tablets—soluble phenytoin, 0·1 gm. (gr. 1½) sugar-coated—for the treatment of epilepsy, may be obtained from the Medical Department, Boots Pure Drug Co., Ltd., Station Street, Nottingham. soluble phenytoin was first introduc 1938, clinical reports have gone to sho it possesses advantages over other convulsants. Eptoin tablets are suppl bottles of 100.

Orders Through Wholesalers.—Foll an advertisement for Howards' co packages in the *C. & D.*, July 17, Ho & Sons, Ltd., Ilford, have received erous inquiries and orders from pharma Although all replies have been dealt individually, Messrs. Howards poin that they are not organised to deal with the retailer. All orders should be to the wholesale house with which pharmacist deals.

New Type of Insulin.—Burroughs come & Co., 183 Euston Road, Lo N.W.1, have introduced, and adv elsewhere in this issue, a new, mo insulin which promises to occupy an portant place in the insulin therap diabetes. The new type of insuli known as globin insulin and consists combination of globin, a simple pr obtained from red-blood cells by ren of the chromogen fraction, with ins and as issued contains a small percen of zinc. It forms a clear aqueous solu at a *p*H of 3·7. The retarding effec globin in combination with insulin discovered in the research laboratori Burroughs Wellcome & Co. (U.S.A.), Tuckahoe, New York, and during the few years the product has been subje to clinical trials by a number of lea authorities on diabetes in the U States. Wellcome brand globin insulin zinc) is issued in rubber-capped bo containing 5 c.c.

Business Changes

Popular Medicines, Ltd., have moved to 103 High Street, Watford, H

Gee Lawson Trading Co., Ltd., removed to Orchard House, Orchard St London, W.1.

Mr. W. H. Archer, M.P.S., has ta over from Mrs. J. Harrison the phar ceutical business of J. Harrison, 72 Street, Keighley, Yorks.

Proprietary Articles Trade Associat

Alterations to Protected List.—*Albion Co., Ltd.*, milk and sulphur soap, tablet box of three 1s. 10½d., 17s. 3d. doz., tax 5s. doz., inclusive retail price, 2s. 4½d.

TRADE MARKS

"*The Trade Marks Journal,*" *July* 14)

AT"; for soaps, perfumery, essential oils, n-medicated toilet preparations, denti- es, cosmetic preparations, laundry and aning preparations (3). By Esther G. own trading as Lilly-White Mfg. Co., and Brobat Mfg. Co., 75 Northcross Road, st Dulwich, S.E.22. 621,107 (Associated).

RITAN"; for soaps, perfumery, essential , cosmetic preparations, non-medicated let preparations, dentifrices, laundry and aning preparations (3). By Thornton & ss, Ltd., Off Manchester Road, Linth- ite. 621,276 (Associated).

RO" in form of cross on circle (red and ite colouring prohibited); for soaps, ergents and pumice stone (3). By giene Products, Ltd., 185 Lagauchetiere eet West, Montreal, Canada. 621,855.

E STEAM SACHET" and words "British de" on rectangular device; for sachets use in waving the hair (3). By The rmal Laboratories, Ltd., Pearson Park, ill. B621,891.

ENA"; for perfumes, non-medicated toilet eparations, etc. (3). By A. Ibbetson & ., Ib-co Works, Great North Road, evenage, Herts. 622,518.

LEVARD"; for non-medicated toilet pre- rations and cosmetics (3). By Crystal oducts Co., Ltd., 7 Stanhope Terrace, ncaster Gate, London, W.2. 622,964.

LLE"; for toilet preparations for the hair). By A. G. Brown, 52 Whitefield Road, eagrave, Luton, Beds. 623,114.

ALTHWAYS" across circular design; for edicinal herbs, preparations of herbs for edicinal purposes, and maté tea for medi- nal purposes (5). By J. Morrison, 22 North reet, Guildford. B615,045 (Associated).

NCO"; for pharmaceutical preparations r human and veterinary use, sanitary eparations, deodorants, disinfectants, weed llers, insect-repelling preparations, infants' nd invalids' foods (5). By Stanco Incor- orated, 100 West Tenth Street, Wilmington, elaware, U.S.A. 622,158 (Associated).

BLEST"; for pharmaceutical preparations nd substances (5). By P. L. Millwood, odore, Boxhill Road, Tadworth. 622,471.

OCAFE"; for all goods (5). By Brook, arker & Co., Ltd., Ashfield, Horton Road, radford, Yorks. 623,073.

RAPED"; for pharmaceutical preparations r treatment of the feet (5). By W. R. Villiams Crowe, White Ben, South Road, horley Wood, Herts. 623,099.

POLON" and "ANAHEPOL"; for all goods 5). By Allen & Hanburys, Ltd., Plough ourt, 37 Lombard Street, London, E.C.3. 23,172–73 (Associated).

OPOSYL"; for pharmaceutical substances nd preparations (5). By Watford Chemical o., Ltd., 11 Waterloo Place, London, .W.1. 623,246.

A-PEX"; for pharmaceutical preparations nd substances (5). By The Dubarry Perfumery Co., Ltd., Goldstone Laboratories, Hove Park Villas, Hove, Sussex. 623,261.

"SESCAS"; for surgical, medical, dental and veterinary sterilisers (10); "SESMATT"; for surgical, medical, dental and veterinary instruments and apparatus (1). By Surgical Equipment Supplies, Ltd., Westfields Road, Western Avenue, North Acton, London, W.3. 623,035–128 (Associated).

APPLICATION AMENDMENT

According to "The Trade Marks Journal," July 14, specification No. 618,906 by Evans Sons Lescher & Webb, Ltd., has been altered to read "Preparations composed principally of benzyl benzoate, for the treatment of scabies and dermatoses of parasitic origin."

(*From "The Trade Marks Journal," July* 21)

"RONDAR"; for perfumes, non-medicated toilet preparations, etc. (3). By J. E. Sawyer, 70 Far Gosford Street, Coventry. 622,772.

Cross device on circle (red and white colouring prohibited); for toilet powders and soaps (3), bandaging materials, plasters, etc. (5), rubber surgical goods and surgical instruments (10), toilet paper, etc. (16). By A. Carus & Sons, Ltd., Hoddlesden Mills, Johnson Road, Hoddlesden, Darwen, Lancashire. 623,080–83 (Associated).

"CRESOLOX"; for soluble tar oil sheep dip (5). By William Butler & Co. (Bristol), Ltd., Silverthorne Lane, St. Phillips, Bristol. B622,668.

"EMBEVAC"; for all goods (5). By May & Baker, Ltd., Dagenham, Essex. 623,052 (Associated).

"ULTRAVITE"; for pharmaceutical and medicinal preparations for human use (5). By Nicholas Proprietary, Ltd., 10 City Road, South Melbourne, Australia. 623,033.

"EMBEXOLENE"; for medicated ointments (5). By Cecil J. Taylor, Collier Lane Works, Carlisle. 623,153 (Associated).

"VITROMIN"; for veterinary preparations (5). By Vitron Products, Ltd., 8 Market Street, Leicester. 623,161.

"C. KEARSLEY" facsimile signature; for pharmaceutical substances, disinfectants, sanitary towels, menstruation pads and tampons (5). By C. & G. Kearsley, Ltd., 83 Cannon Street, London, E.C.4. 623,177 (Associated).

"DRENGAL"; for all goods (5). By Frederick Burke, 179 Whalley New Road, Blackburn. 623,329.

REGISTERED USERS OF REGISTERED TRADE MARKS

Specifications Nos. 48,914–15 for pills for man; No. 48,916 for liver pills; No. 474,635 for pills containing iron, for human use; 535,069 and 560,153 for deodorants for use upon the human body; 562,124 for pills for human use. By Pretested Products, Ltd., 8 Frederick's Place, Old Jewry, London, E.C.2.

NEW BOOKS

Practical Pharmacognosy.—T. E. Wallis. 8¾ in. by 5½ in. Pp. 235. 15s. J. & A. Churchill, Ltd., 104 Gloucester Place, Portman Square, London, W.1. This is the fourth edition of this well-known text book. The author, in his preface, explains that in preparing this edition the text has been revised throughout and some slight re-arrangement of the contents has been made, so that the course of instruction may follow a more rational order of development. Six new exercises have been introduced under quantitative analysis, including analysis of herbal mixtures, ash and volatile oil determinations, yield of extractive to solvents and the testing of strophanthus. A feature of the book is the excellence of the numerous drawings.

Theoretical Organic Chemistry.—Julius B. Cohen (revised by P. C. Austin). 7½ in. by 5 in. Pp. 622. 10s. Macmillan & Co., Ltd., St. Martin's Street, London, W.C.2. This well-known text book by the late Professor Cohen, which has benefited so many students of organic chemistry during the past forty years, has now been entirely revised. While the general plan of the book has been retained new chapters have been added on stereochemistry and the theory of valency, while those on carbohydrates and proteins have been largely rewritten and considerably expanded. Heterocyclic and other complex substances have been grouped together into a new Part III, while the proteins are included in a new chapter on compounds of biological interest.

Commodity Control.—J. Bray Freeman and N. Howarth Hignett. 9¾ in. by 6½ in. Pp. 298. 15s. Butterworth & Co. (Publishers), Ltd., 37 Essex Street, Strand, London, W.C.2. Great difficulty is often experienced by traders in keeping up to date with the mass of emergency legislation imposing control on the manufacture and supply of commodities. The authors of this book provide within reasonable compass an exposition of this legislation on materials other than foods. The book provides, *inter alia*, comprehensive information on such subjects as the creation and function of war-time ministries, the Emergency Powers (Defence) Acts, 1939 and 1940, imports and exports, limitation of supplies and control of manufacture and supply, price control, provisions directly applicable to retail trading and control applied to special industries. An alphabetically arranged and complete schedule of orders and regu imposing, applying, releasing or rer controls is provided by one of the appendices, and the whole work is indexed. Throughout the useful life edition, supplementary matter, keepi work up to date, will be published in lative pocket supplements to fit the in the back of the cover.

Dictionary of Organic Compounds I).—I. M. Heilbron and H. M. Bu 9½ in. by 7 in. Pp. 1072. £6 6s. E Spottiswoode (Publishers), Ltd., Bedford Street, Strand, London, Volume I of this important dicti which takes the subject from abieti to dypnone, is an entirely rewritten e and covers the literature up to the 1940, with some references to appearing during the subsequent two The new volume is larger than its cessor and contains augmented dat references to many new compounds. understood that Volumes II and III issued in due course as reprints, but i ing additional subject matter on comp in the form of supplements. Cross refe to the compounds appearing in the s ments are included in the present vo The price of the three volumes w £15 15s. the set.

The Pharmaceutical Recipe Bo American Pharmaceutical Association. by 6 in. Pp. 552. Price in United State Distributed by Mack Printing Co., Ea Pennsylvania. This new edition repre a complete revision of this useful Ame formulary, the object being to improv appearance, taste and effectiveness o preparations included and to add formulas gleaned from the medical l ture, hospital formularies and fo sources. The new volume is a mo up-to-date reference guide for prac pharmacists. The sections devote chiropody formulas, dental preparat veterinary products and cosmetics been completely revised by authoriti these fields. New features include a of Latin terms and equivalents, a glo of synonyms, a table of coal-tar dy vitamin synopsis, table for prep percentage solutions, a section on pre tions for diabetics, and a chapte ophthalmic preparations. The new ed contains 1,400 formulas which, alth primarily intended for the American p macist, are also of considerable intere chemists in this country.

RITISH PHARMACEUTICAL CONFERENCE

ghtieth annual meeting of the Pharmaceutical Conference was the Waldorf Hotel, Aldwych, W.C.2, on July 29, Mr. T. E. n the chair. Supporting Mr. Wallis platform were Mr. R. R. Bennett, Marns (treasurer), Dr. C. H. Hamp- r. W. S. Howells (president of the ceutical Society of Great Britain), C. E. Corfield and G. R. Boyes ries) and Mr. H. N. Linstead ry of the Society).

W. S. Howells welcomed the de- He said it had been impossible to lish the social side of their activities, ad been such a pleasant feature of ference in former years. The Con- showed that scientific members enuously pursuing their researches, congratulated them on producing of first-class papers for discussion. extremely pleased to preside at a nce which Mr. Wallis was to He congratulated Mr. Wallis on ree of D.Sc. recently added to the istinctions he had already received. carefully examined the suggestions y Mr. Wallis at last year's Con- but though the time had not been ne to present these to the Council, d state that any suggestions Mr. made were greatly appreciated, and d assure him that those made last d this year would be added to the for a future meeting of the Society's . He then called upon Mr. Wallis ver his Conference address. [An t of the address was published in *D.*, July 31, pp. 114–16.]

to Chairman

C. H. Hampshire who, on behalf of present, proposed a vote of thanks chairman of the Conference for his tive address, said Mr. Wallis was ing them for the second time. He ld in great esteem. His reputation cond to none, and his record was which any one might be proud. allis's address presented them with nd lucid ideas and had shown them ntents of his richly stored mind. The an had referred to many points ted with research and he would like at that the great reward of research e satisfaction of having done some- towards revealing the truth and to the sum of human knowledge. were very grateful to Mr. Wallis for having presented his subject in such a practical form.

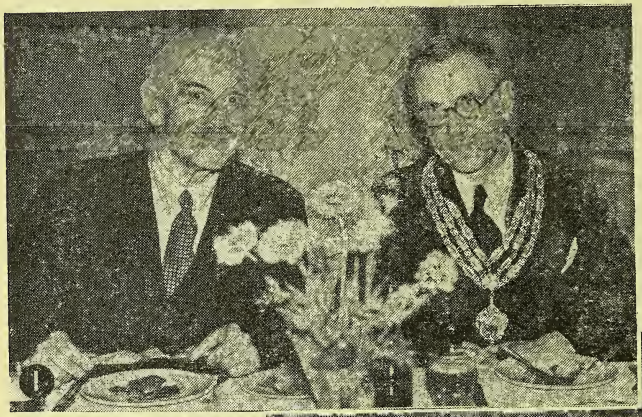
Seconding the vote of thanks, Mr. R. R. Bennett said that in the person of the chairman they had an able successor to a long line of chairmen who had stimulated members of the Conference. They all held Dr. Wallis in high regard, particularly for his great work on pharmacognosy. His reputation in that field was international. They could recognise that the address had been the subject of hard thinking and close study. Research had a direct relation to practical affairs, and in every industry research deserved increased recognition. In their own particular industry pooled research had been organised and quite striking progress had been made. Research and inventions generally were now being encouraged and financed on a scale hitherto unknown in this country. It was worth reflecting that this was the result of representations made to industry long before the war that British firms must get together in closer co-operation than ever before. He thanked Dr. Wallis wholeheartedly for the part played when voluntary work had been difficult and when energies had been taxed to the limit of human endeavour. They were meeting that day cheerfully to carry on the work of the Conference.

Dr. Wallis, in reply, said it was a great honour to have been asked to address the Conference a second time. The vote of thanks and reception accorded to him had greatly increased the pleasure he had had in preparing the address.

Annual Report

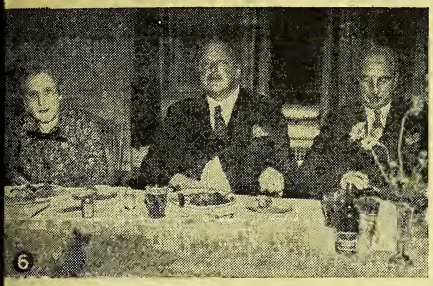
The annual report of the executive committee was presented by Mr. G. R. Boyes. It showed that the arrangements for the annual meeting had once again been made by a subcommittee consisting of the London members of the executive committee with Mr. T. Marns as chairman and Mr. C. E. Corfield as secretary. The research list had not been revised but members who had facilities for additional research would obtain suggestions from the list of subjects included in the annual report for 1939. The fifteenth volume of the "Quarterly Journal of Pharmacy and Pharmacology" had been published in four parts during the year and constituted the "Year-book of Pharmacy" for 1942. On the editorial committee the executive would be represented this year by Messrs. R. R. Bennett, F. W. Gamble and G. R. Boyes.

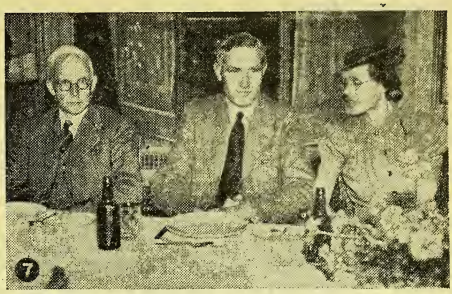
BRITISH PHARMACEUTICAL CONFERENCE
London 1943

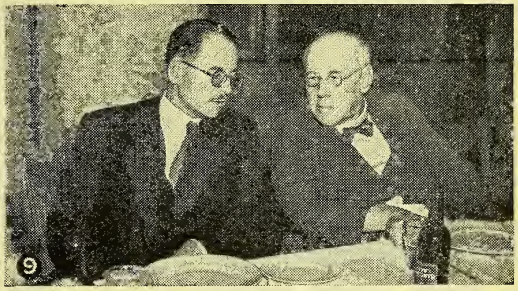


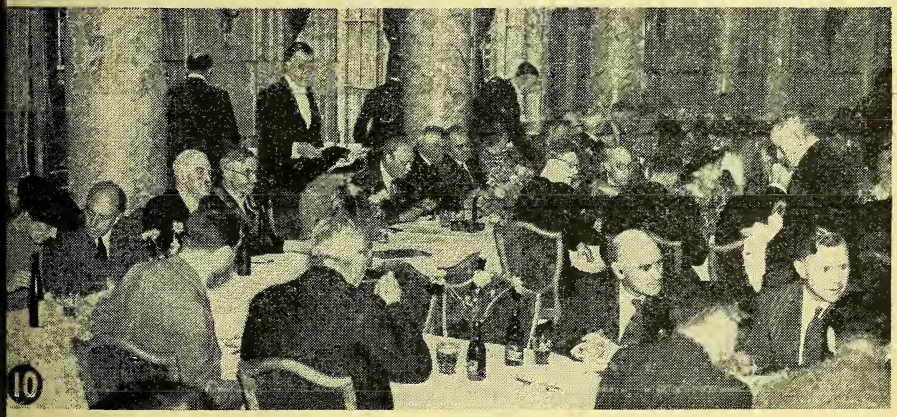
1. Mr. W. S. Howells (*sident of the Pharmaceut Society of Great Britain*) Mr. R. R. Bennett. 2. T. E. Wallis (*chairman of British Pharmaceutical ference*, 1943), Mr. W. J. Woolcock and Mr. F. Wells.

3. Mr. T. Marns (*treasurer of the British Pharmaceutical Conference*) and Dr. C. H. Hampshire. 4. Mr. E. Saville Peck and Mr. H. Brindle (*chairman of the British Pharmaceutical Conference*, 1944). 5. Mrs. Corfield and Dr. Linnell.









THE CONFERENCE LUNCHEON AT THE WALDORF HOTEL, LONDON

. Mrs. H. Skinner, Dr. J. Tait and Mr. Heldrum. 7. Mr. H. Deane, Mr. F. W. Adams (*deputy secretary, Pharmaceutical Society*) and Mrs. G. R. Boyes. 8. Mr. W. R. Melhuish, Mrs. Lockyear and Mrs. Melhuish. 9. Dr. G. R. Boyes and Mr. H. Skinner. 10. A section of the 50 who were present at the luncheon.

Treasurer's Report

The accounts for 1942 were presented by Mr. Marns, and showed that the income from subscriptions paid by elected members was £71 8s., and in addition a composition fee of £25 was received under Rule 2 from the Pharmaceutical Society of Northern Ireland. These amounts have been credited to the account of the "Quarterly Journal of Pharmacy and Pharmacology." On the expenditure side, the general expenses of the Conference were £13 2s. 7d. These figures were included in the Pharmaceutical Society's financial statement presented at the Society's annual meeting in May of this year. The total amount expended was £1 4s. 5d. less than last year. Apart from the figures to which reference has just been made, the Conference balance sheet showed on the assets side Consols to the nominal value of £1,250; Savings Bonds to the nominal value of £200, and cash at the bank amounting to £67 16s. 8d. The usual presentation of books in connexion with the Bell and Hills Fund has been discontinued until after the war.

The adoption of the reports was proposed by The President and seconded by Mr. H. Skinner, and they were unanimously adopted.

Officers of the Conference

The executive nominated the following officers for the year 1943–44: *Chairman:* H. Brindle; *Vice-presidents:* J. F. Tocher, D. Hooper, E. Saville Peck and C. A. Hill; *Vice-chairmen:* F. W. Gamble, R. R. Bennett, J. H. Franklin, H. Skinner, C. H. Hampshire, F. W. Crossley-Holland, H. Deane, H. Humphreys Jones, A. R. Melhuish and T. E. Wallis; *Treasurer:* T. Marns. *General Secretaries:* C. E. Corfield and G. R. Boyes; *Other Members of the Executive:* H. Berry, K. Bullock, H. Davis, G. J. W. Ferrey, A. J. Jones, D. McCall, together with J. T. Appleton, F. G. Wells and F. C. Wilson (nominated by the Pharmaceutical Council). The above persons would be the officers of the Conference, together with the following, *ex-officio*: *President:* The President of the Pharmaceutical Society of Great Britain; *Other Members of the Executive:* The President of the Pharmaceutical Society of Ireland, the President of the Pharmaceutical Society of Northern Ireland, the Chairman of the North British Executive of the Pharmaceutical Society of Great Britain. The executive again considered it inadvisable to make any definite plans for future meetings, but they would make every possible endeavour to maintain the u broken continuity of the meetings duri the war.

Dr. Linnell proposed the election officers for 1943–44, paying tribute to t work of Mr. H. Brindle. Dr. Hartl seconded the proposal and the officers we unanimously elected. Mr. Brindle replie thanking the meeting for the honour inviting him to be chairman of next yea Conference. A vote of thanks to Dr. Wal was proposed by Dr. Dyer and second by Dr. Bullock.

INSURANCE ACT DISPENSIN

Cheshire.—In the period January May, prescriptions dealt with by t Insurance Committee numbered 632,30 the cost of ingredients was £18,164 and t total prescription cost £32,264, the avera cost per prescription being 12·24d.

Cornwall.—The Insurance Committe at a meeting on July 28, considered request from the Western Federation Trades Councils that arrangements shou be made for chemists' shops in the coun to remain open after doctors' eveni surgery hours. The matter is unde stood to have arisen because a pr scription for six aspirin tablets was n dealt with at Falmouth on an early closi day. A letter from the Federation allege that it was practically impossible to g prescriptions made up on certain evenin after insured persons had attended docto surgeries, and it was suggested that at lea one shop in each of Cornwall's chief tow should remain open for at least one ext hour each night. A member of the Com mittee said that prescriptions could b made up after shop hours by chemists wh lived over their shops or near to then Rotas had been tried in some towns, it wa stated, and the experience in Truro was tha only seven prescriptions were brought i after closing hours during a period c twelve months. The Committee decidc not to make any alteration in the existin arrangements.

Walsall.—At a meeting of the Insuranc Committee recently, a member brougl before members the fact that an insure person in another town had cost th Insurance Committee £2,319 for drug Another member pointed out that thi demonstrated that the main consideration c the Insurance Committees was the recover of patients. There was no restriction o essential expenditure.

COMING EVENTS

Sunday, August 8

ERPOOL BRANCH, CATHOLIC PHARMA-EUTICAL GUILD, Metropolitan Cathedral uildings, Brownlow Hill, at 3 p.m. . H. Bradley, M.D., on "The Eye."

Tuesday, August 10

THGATE AND WOOD GREEN DIVI-ON, NORTH LONDON PHARMACEUTICAL SSOCIATION, Manor House Hotel, Fins-ury Park, London, N.4, at 7.30 p.m. essrs. Beverley Baxter, M.P., and Hugh . Linstead, M.P., on "Pharmacy and e Health Services."

PARLIAMENTARY NEWS

rosecutions for Overcharging.—Sir Smed-Crooke asked the President of the Board rade on July 29 whether he was aware some retailers were breaking the law overcharging and could not be pro-ed against owing to their inability produce invoices from the wholesaler, whether he would take steps to stop practice. Captain Waterhouse: This stion is receiving careful consideration, onsultation with the Central Price Regu-on Committee.

Vomen Running Husbands' Businesses.—Summers asked the Minister of Labour July 29 whether he would refrain from ing up or directing to other work ried women who were maintaining their bands' businesses during their absence he Forces in cases where the businesses ld have to close down if the wives were allowed to carry on. The reply was t before action was taken to withdraw oman in these circumstances, she was n an opportunity of applying for her to be considered on grounds of ex-tional business hardship.

Jnited Kingdom Commercial Corporation. Mr. Douglas asked the Chancellor of the hequer on July 27 whether the cost of ctions such as luncheon parties given the United Kingdom Commercial Cor-ation, Ltd., were charged, either directly indirectly, to public funds. Sir K. Wood d the expenses of this Corporation rged into its profit and loss account, ich was entirely for the account of the hequer. His Majesty's Government saw reason to object to the particular ex-nses alluded to, which were not incurred hout due prior consultation. He also d the transactions of the Corporation re subject to public control.

PERSONALITIES

MR. W. H. LIGHTBOWN, M.P.S., Blackburn, has made good progress following an operation at the Royal Infirmary.

MR. W. A. ROBERTS, M.P.S., for over thirty years until his recent retirement the proprietor of the pharmacy at Yelverton, Devon, met with an accident recently which has necessitated his admission to the Prince of Wales Hospital at Plymouth. In jumping from a low wall on the Yelverton bowling green Mr. Roberts sustained a fracture which will prevent his being able to walk for a considerable time.

DEATHS

BLACK.—Recently, Mr. Albert Edward Black, M.P.S., Newport Road, Ventnor, Isle of Wight, aged seventy-four.

KETTLE.—Recently, Mr. Charles Kettle, M.P.S., 312 Radford Road, Hyson Green, Nottingham. Mr. Kettle qualified in 1938.

MELVILLE.—Recently, at 97 Perth Road, Dundee, Mr. John Melville, M.P.S., aged seventy-one.

PINCHEN.—Recently, Mr. William John Pinchen, M.P.S., 24 Collingwood Avenue, Muswell Hill, London, N.10, and formerly of Kilburn, aged eighty-five.

THOMPSON.—At Thame, recently, Mr. Charles John Samuel Thompson, chemist and druggist, curator of the Wellcome Medical Museum, 1900–26, aged eighty. Mr. Thompson began his pharmaceutical career in Liverpool, where he produced "The Chemists' Compendium," the first of the many publications of which he was the author. Among his numerous contributions to historical medicine was his organising of the historical exhibit at the International Congress of Medicine held in London just before the 1914–18 war. During that war he raised and trained two voluntary aid detachments and commanded an auxiliary military hospital at Harrow. In 1926 he became curator of the historical collections in the Hunterian museum.

WHITEHOUSE.—In London, on July 28, Sir Beckwith Whitehouse, president of the British Medical Association and Professor of Midwifery and Diseases of Women at Birmingham University, aged sixty-one. He was on his way to Euston after having attended a meeting at which he had been nominated as president of the B.M.A. for a second year, when he collapsed in the street and died an hour after admission to hospital.

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CXL AUGUST 7, 1943 NO. 3313

fact that goods made of raw materials ort supply owing to war conditions are tised in this paper or described in its rial columns should not be taken as an ation that they are necessarily available xport.

Research in Pharmacy

promotion of research is one of the objects of the British Pharmaceutical erence and its record in this respect cond to none. Further, without ex- ion the annual address by the chair- has always been an outstanding ribution to pharmacy. Dr. Wallis spent many years on research and so able to present members not only with ddress on an appropriate subject but to forward ideas which he has accumu- l as the result of great experience. His ce on how to commence research work not only prove helpful to students but particularly suitable at the present when we are on the verge of great nges in the practice of pharmacy. If scheme for the national pharmaceutical ice put forward by the Pharmaceutical ety, the National Pharmaceutical Union other organisations should be adopted the Government, chemists will find ortunities for research of a pharmaceut- nature such as have not been possible many years, and in this respect the mples of the late Mr. E. H. Farr and William Glyn-Jones, to which Dr. llis called attention, should serve as a ther inspiration.

Though pharmacists, almost without exception, are keenly interested in scientific research, not all are inclined to undertake work of this nature. As the years pass after they have satisfied the examiners of the Pharmaceutical Society chemists become more and more engrossed in business matters. In this aspect of life, however, there is as much call for research as in any form of science, and for examples one need look no further than Insurance Act dispensing or the turnover of proprietary articles, to mention but two. In regard to the former, it will be recalled how handicapped the National Pharmaceutical Union found themselves through the absence of statistics on the last occasion when negotiations were being carried on with the Ministry of Health for increased remuneration. The details asked for (see *C. & D.*, November 8, 1941, p. 176) could be investigated in most businesses and if collated from all over the country would be of inestimable value in any future negotiations. Some years before the war there was, in the United States, an organisation called the Druggists' Research Bureau. It encouraged chemists to supply details of their turnover in various preparations, particularly toilet and cosmetic articles. Many chemists paid tribute to the value of such information, stating that it had enabled them to turn their stock over more frequently, and to buy more accurately than formerly. There is no reason why papers on such subjects should not be contributed to the Conference. Both these and the science papers have an important bearing on the future of pharmacy.

Proprietaries Price List

THE CHEMIST AND DRUGGIST Price List of Medicinal Proprietaries, which appeared recently in weekly issues of the *C. & D.*, is being reprinted as a separate booklet, and copies will shortly be available, price one shilling post free. The List has been thoroughly revised and corrected to July 31 in the light of makers' changes of sizes and prices, new rulings as to purchase tax by the Board of Customs and Excise, and other relevant factors, and now represents the most convenient time-saver to the chemist in business that has been produced to meet the difficulties of wartime trading in medicines. Owing to paper stringency the edition is strictly limited and subscribers who require copies should make early application to the Publisher, THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2.

BRITISH PHARMACEUTICAL CONFERENCE SCIENCE PAPER

(*Concluded from the C. & D., July 31, p. 126*)

Tuberculin Protein. A Note on its Preparation from Non-synthetic Medium

By G. E. Shaw

Hitherto tuberculin protein has been prepared from cultures grown on media which contain only known pure inorganic and organic materials. In view of the shortage of asparagine, which is a constituent of most of the synthetic media used for this purpose, alternative culture media were sought. It was found that 2 per cent. peptone water made with Evans' bacteriological peptone, with the addition of sodium chloride and glycerin, would support a luxuriant growth of *M. Tuberculosæ*. Although this medium, before culture, gives a precipitate with ammonium sulphate, 10 per cent. trichloracetic acid or 1 per cent. metaphosphoric acid causes no precipitation. After growth of *M. Tuberculosæ* for six to eight weeks a heavy precipitate is obtained with both. The precipitate was found to be identical in potency with that obtained from a similar culture on synthetic medium. In all cases the potency of a solution of the tuberculin protein assaying at 0·08 per cent. o trogen, i.e. 0·5 per cent. of protein, equal to that of international standar tuberculin when tested by the method down by the Medical Research Cou Memorandum M.15. The yield v according to culture from 0·5 gm. to 2 per 100 mils with an average of 1 gm 1,000 mils. Peptone water mediu claimed to have advantages over the synthetic medium in that the ingred are cheaper and more readily avail The yield also appears to be disti better. Although a strong solutio tuberculin protein is reasonably stab *p*H 6·8, the acetone precipitation me described is a convenient way of obta a water-soluble dry powder. To ob the necessity for weighing out powder contents of one bottle can be dissolve phosphate buffer at *p*H 6·8, the sol being assayed and diluted. (From E Biological Institute.)

A Study of the Inhibiting Actions of Propyl Gallate (normal Propyl Trihydroxy Benz and certain other Trihydric Phenols on the Autoxidation of Animal and Vegetable

By Erich Boehm and Reginald Williams

Many organic compounds possessing olefinic linkages oxidise spontaneously on exposure to atmospheric conditions, and the presence of such linkages in fats and oils renders these complex organic mixtures susceptible to atmospheric oxidation. When the oxidation process reaches a sufficiently advanced stage the oil is said to be rancid, and it assumes an unpleasant taste and odour. In addition, the vitamin content, and hence the nutritive value, decreases with the oxidation of the oil. The oxidation processes exhibit the characteristics of autocatalytic reactions: an initial slow period at almost constant velocity followed by a stage during which the velocity of reaction increases in a logarithmic manner to a maximum. The development of rancidity is known to be considerably retarded by the addition of minute quantities of certain compounds to the autoxidisable substance. Such compounds include certain inorganic acids, phenols, substituted aromatic amines, aliphatic acids, etc., and these compounds are generally referred to as antioxidants. Of the phenolic group, hydroquinone, catechol, pyrogallol and 1 : 2 : 4-hydroxy- hydroquinone are perhaps the best-k members, and although no definite rela ship between antioxidant properties chemical constitution has yet been e lished, marked antioxygenic activity s to be associated with the presence of or more hydroxyl groups in certain posi of the aromatic nucleus. Thus ph resorcinol and phloroglucinol show marked retarding influence on autoxid reactions, whilst catechol, hydroqui and pyrogallol are active inhibitors. C acid and its esters belong to this phe group of antitoxidants, and, in the aut view, normal propyl gallate is, by reas its ready solubility at relatively low tem tures, acidity and colour, outstanding w the group.

For an antioxidant to be of genera in pharmaceutical preparations it shou effective in inhibiting the autoxidatic fats and oils; odourless and taste without discolouring effect upon the paration to which it is added; as n neutral in reaction as possible; easily definitely soluble in oils so that concent solutions of it in oils can be prepare

n as desired; and pharmacologically nd not strongly toxic to animal tissue. ay in which propyl gallate fulfils these ements is set out in a series of tables ing the authors' findings from their ments. The findings indicate the nd inhibiting action exerted by propyl e on the autoxidation of arachis oil. oxic nature of pyrogallol precludes ide use of this substance in phar- tical preparations, and an investiga- f the pharmacological action of propyl e, pyrogallol and gallic acid is still in ess, and it is hoped that a comprehensive survey of their properties will be ready for publication in the near future. A preliminary report from the Pharmacological Laboratories of the College of the Pharmaceutical Society indicates that normal propyl trihydroxybenzoate is less toxic than pyrogallol when administered orally to mice; and that no acute skin effects are observable when a 10 per cent. solution of normal propyl gallate in propylene glycol is left in contact with shaven guinea pigs' skin for forty-eight hours, or the human skin for twenty-four hours. (From the research department, Nipa Laboratories, Ltd.)

The Spray-drying of Pharmaceutical Products

Part II. Certain Inorganic Salts

By Kenneth Bullock and J. W. Lightbown

authors have applied the technique ay-drying to ferrous salts; to scale unds of iron; to certain salts that onveniently be obtained in the an- us state by spray-drying their solu- and to substances which retain their of crystallisation with greater ten- They find that a ferrous salt can ay-dried without significant oxidation. cated ferrous sulphate complying with l requirements was obtained from a on of the salt in one operation, and all ray-dried samples examined complied the official purity test requiring com- solubility in acidified water; samples ned by drying below 200° C. dissolved more rapidly than a commercial le of exsiccated ferrous sulphate. ts with ferrous chloride were remark- in showing the almost complete ce of oxidising conditions in the during the drying process. The osition approximated to $FeCl_2$, $2\frac{1}{2}$ The citrated ferrous chloride tests carried out on solutions prepared as ted by the First Addendum to the h Pharmacopœia, 1932, up to the at which a quantity of citric acid l in weight to one tenth of the ferrous ide present has been added and the ion filtered. Then, instead of evapo- g, the solution was diluted to a total s content of between 7 and 10 per cent., spray-dried. At air-inlet temperatures 50° and 95° C. the products were light w, dry, free-flowing powders. At 260° C. rownish-buff product resulted. The titution of the powders and of a com- ial sample of citrated ferrous chloride hown in the table in next column.

Experiment number	Temp. of air inlet ° C.	Per cent. $FeCl_2$	Per cent. ferric iron as $FeCl_3$
I	260	76·7	6·0
II	150	79·5	0·5
III	95	80·0	0·2
Commercial sample of citrated ferrous chloride		73·7	5·1

Iron and ammonium citrate, the other scale compound tested, could readily be prepared in the form of a powder containing between 20·5 and 22·5 per cent. of iron. Satisfactory powders of potassium acetate, sodium sulphate, sodium phosphate and sodium acid phosphate in the anhydrous condition were obtained by spray-drying the corresponding solutions of 10 per cent. strength. Spray-drying of a 5 per cent. aqueous solution of boric acid yielded a light powder which could easily be dusted or used in an insufflator and was rapidly soluble in water. With magnesium sulphate the degree of hydration of the spray-dried powders varied according to the conditions of drying from two to between four and five molecules of water to one molecule of $MgSO_4$. "It would be easily possible to prepare an exsiccated magnesium sulphate of British Pharmaceutical Codex quality from a solution of magnesium sulphate in one process by spray-drying," it is concluded. Compositions of three samples of powder obtained by spray-drying a 10 per cent. solution of borax at various temperatures were 82·3, 80·3 and 76·9 per cent.

$Na_2B_4O_7$. An indication is given of the bulk densities of the various powders, and it is pointed out that, although large volumes of heated air are used, the atmosphere to which droplet and moist powder are submitted is not an oxidising atmosphere. The degree of dehydration which occurs when substances capable of co ing various amounts of water of cryst tion or constitution are spray-dried de on the temperature to which the p is raised and the humidity of the sphere to which the particle is ex during the process.

Part III. Digitalis, Adrenaline and Ascorbic Acid

By Kenneth Bullock, J. W. Lightbown and A. D. Macdonald

To submit to a more stringent test earlier conclusions that spray-drying operates at a relatively low temperature for a short time, so that little, if any, change due to heat results, and that, though large volumes of air are used in the process, the substance dried undergoes little oxidation, the authors spray-dried aqueous extracts of digitalis and solutions of adrenaline hydrochloride and ascorbic acid (substances easily affected by heat and oxidation). The digitalis experiments indicated that active dry extracts may be obtained in a stable state suitable for storage. Two experiments were carried out. In the first a concentrated infusion was prepared by macerating 500 gm. of powdered digitalis leaf with 2 litres of water at 98° C. After one hour the liquid was filtered off with suction and the marc pressed; 1,300 mils of concentrated infusion containing 7·59 per cent. of solids was obtained. In the second experiment 25 litres of infusion having a total solids content of 11·57 per cent. was prepared from powdered digitalis leaf by percolation in a steam-jacketed percolator. The percolate was spray-dried at an air inlet temperature of 95° C. to 100° C. A good yield of powder having a moisture content of 8·1 per cent. was obtained. "There seems to be good evidence in these experiments for believing that concentrated aqueous infusions or percolates of dig could, with little loss of activity, be s dried to yield stable water-soluble po from which the infusion and possibly preparations could be obtained as requi The adrenaline solutions were assaye pressor activity on spinal cats. The re showed that this compound may be s dried without loss of pressor activi slightly acid solution, and that even the *p*H of the blood the loss may be red to not more than 5 per cent. if the d conditions are good. Spray-drying ascorbic acid was carried out on a sol containing 0·5 per cent. of ascorbic and 10 per cent. of sodium chloride, latter serving both as a basis on whic dry the ascorbic acid and as an indi for the reconstitution of the solution drying. Loss in ascorbic acid on s drying and reconstitution was insignifi although there was some indication a 1 in 50 dilution of the reconstit solution was less stable than the c sponding dilution of the original solu Thus the experiments have confirmed belief that sensitive or unstable mate may be spray-dried with very little of activity due to heat or oxidation d the drying process. (From the departm of pharmacy and pharmacology of University of Manchester.)

Zinc Peroxide for Wound Therapy

By James S. Toal

Interest in zinc peroxide as an agent in the treatment of infected wounds has been revived following its use by an American surgeon (Meleney), and by Hoyle, Spence and Faulkner (see *C. & D.*, 1942. I. 178). The compound was recognised in the British Pharmaceutical Codex, 1923, but was omitted from the 1934 Codex. Meleney had difficulty in obtaining consistent clinical results when he used the ordinary peroxide of commerce. The chemical composition of the various samples seemed similar, but physical differences of an important nature were remarked. The peroxide that apparently gave him sistent and satisfactory clinical results a product which partly decomposed w in contact with water, with slight evolu of oxygen. Hoyle, Spence and Faul reported satisfactory clinical results, made no special claim that the zinc oxide used had any special characteris The position seems to be, states the aut that the special peroxide is essentia Meleney's method of treatment is u but if the other technique is adopted t it is not important that the zinc pero used should possess any special charac

l those of purity and full strength. nd of peroxide required by Meleney readily obtainable in this country, pparently there is only one manufac- even in America who produces it. ments were made by the author to a zinc peroxide that behaved simi- o Meleney's sample. A zinc peroxide ching Meleney's was prepared from xide, B.P., and hydrogen peroxide ol.). The material, after being dried vater-bath but not sterilised, did not rate appreciably. After six months say fell only from 59·9 per cent. to er cent. ZnO_2. One gram of the nths' old sample, when heated for urs at 150° C., compared favourably the suspension test with material made. A comparison was made en (*a*) Meleney's sample, (*b*) a com- l sample, (*c*) the laboratory zinc de produced from zinc oxide and en peroxide, and (*d*) a stable per- produced by adding hydrogen per- oxide to a solution of zinc sulphate treated with ammonia. The results, expressed as percentages, were:—

	Meleney's preparation per cent.	Commercial preparation per cent.	ZnO and H_2O_2, preparation (unstable) per cent.	Experimental preparation (stable) per cent.
Loss in weight at 150° C.	9·85	2·2	3·0	2·6
Assay on heated material	19·4	33·4	48·0	62·0
Assay before heating ..	43·0	41·0	59·9	64·5
Apparent difference due to heating	23·6	7·6	11·9	2·5

Thus the stable material was of high oxygen content and, when heated to 150° C., lost only a small percentage of its available oxygen. The unstable product, when mixed with water, decomposed slightly with evolution of oxygen. (From Evans' Fine Chemical Works.)

The Determination of Cantharidin

By George Andrew Guthrie and Harry Brindle

resent writers examined published ses for the volumetric determination tharidin, and came to the conclusion one was satisfactory. Since there is y difficulty in purifying the extracted aridin, a volumetric method or a metric one, depending on the pre- tion of an insoluble compound, might, s thought, considerably simplify its mination. It was decided therefore estigate the possibility of forming an ble compound of cantharidin. A large er of reagents were added to a neutral on of potassium cantharidate, but one produced a precipitate, namely m chloride, which gave a white lent precipitate, apparently of barium aridate. To effect complete precipi- n of the pure cantharidate it was found sary that the *p*H of the solution should out 8·0, and that the liquid should be ed to stand for at least six hours. The itate could be dried at 110° C. and ed as barium cantharidate. Good ts were obtained by a process which is ibed in the paper and which is recom- ed as a gravimetric method for the mination of cantharidin. The process applied with success to a variety of ions containing cantharidin with other ances. Attempts were made to use it he separation of cantharidin from the re material obtained at different s in the assay of cantharides beetles, but oily and colouring matter was usually precipitated with the barium cantharidate.

Thus barium chloride is shown to be a reagent that precipitates cantharidin quantitatively as barium cantharidate. Precipitates were obtained in solutions containing as little as 1 in 200,000 of cantharidin. The gravimetric method described is suitable when the amount present is about 10 mgm. or more. For smaller amounts, a volumetric method is described that gave results which, though slightly high, could be regarded as satisfactory in view of the very small amounts determined. The method consists of the precipitation of barium cantharidate by barium chloride in slightly alkaline solution and the determination of the excess of barium chloride volumetrically. The process is shown to be accurate to within ± 5 per cent. if the amount of cantharidin present is not less than 0·1 mgm. and the concentration not below 0·0003 per cent. It was applied to solutions containing less than 0·1 mgm. of cantharidin, and the results indicated that the error may be of the order of 10 per cent. or more. Efforts were made to trace the source of the positive error. Quantities of 0·1 mgm. to 0·5 mgm. of barium chloride could be accurately determined by the method used for the estimation of the excess of barium chloride. Therefore the error was not due to a low result in the barium chloride determination. It was

possible that there was some adsorption of barium chloride on the barium cantharidate, but this could not be proved, and even appeared improbable, since satisfactory results were obtained with larger amounts of cantharidin. If the amount of cantharidin present is 20 mgm. or more, the authors consider it is probably best determined gravimetrically. As a matter of interest, however, the volumetric process was adapted and used for larger quantities, and good results were obtained. If a sublimation method of purifying the cantharidin, is also described, be utilised, the process is apparently applicable to a variety of preparations, although if fat is present a preliminary separati the cantharidin by extraction with b water is necessary. In the course o work it became advisable to know the bility of cantharidin in water. The r gave an average figure for the solu of cantharidin in water at 20° C. of c gm. per 100 mils, or 1 in 1050.

Significance of Stomatal Index as a Differential Character

Part II. The Identification of the Leaves of English and of Indian Belladonna: The Characterisation of Coca B.P.C.

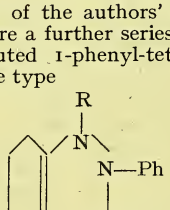
By Jack Marris Rowson

In a previously published paper it was shown statistically that stomatal index values could be used to distinguish between the leaflets of *Cassia acutifolia* and *C. angustifolia*, either entire or in powder. The statistical investigation of stomatal indices is now extended to the leaves of a number of co-generic species used medicinally, and the results are given in a series of tables. The stomatal index of the lower surface of leaves of *Atropa Belladonna* is 21·6, the standard deviation from mean being 1·30; for *Atropa lutescens* the value is 17·6, with a standard deviation from mean of 0·71. The index may be used to distinguish the two species either in the entire or in the powdered condition, and six commercial samples of Indian belladonna leaf examined were found to be derived from *A. lutescens* only. "The significance of these results is seen in the fact that a rapid and reliable method for distinguishing the leaves of *A. lutescens* (Indian Belladonna) from *A. belladonna* has been demonstrated." Observations may be made upon the drug entire or crushed. If in powder form a careful microscopic examination of the particles is necessary to ensure that only counts of the lower epidermis, recog by the presence of hypodermal sp mesophyll, are made. These determina may be carried out more rapidly and more conclusively in the characteris of *A. lutescens* than by determining th of volatile nitrogenous bases in the che assay of such a sample. The stomatal of the lower surface of leaves of *Eryth lum coca* was found to be 13·2, the star deviation from mean being 0·98; *Erythroxylum truxillense* the index 10·1, and the standard deviation from 0·79. The two species may be distingu when entire or in the powdered conditi means of stomatal index values. stomatal index of the same species of does not vary significantly for sar grown in such widely separated habita Peru, Ceylon or Java. Stomatal nun have been shown to vary conside within each of the above species and of little value as a distinguishing chara The same method is being applied by author to other leaves of the Solanaceæ Scrophulariaceæ used in medicine. (I the departments of botany and pharm University of Manchester.)

Hydroindazolone Derivatives: A Search for New Analgesics

By C. W. Picard, D. E. Seymour and F. J. Dyer

The purpose of the authors' investigation was to prepare a further series of alkyl and acyl substituted 1-phenyl-tetrahydroindazolones of the type



(R = alkyl or acyl)

and to compare their physiological ac with those of phenazone and amidopy The paper is confined to a report on relative toxicities of the new compou An examination of their analgesic act is to be given later. Phenazone, th possessing low toxicity, is less active a analgesic than amidopyrine, but an pyrine possesses a marked disadvan which appears to be due to the pres of the dimethylamine grouping, in th produces agranulocytosis and is for reason used little today. It was hoped

nces possessing analgesic activity be produced by replacing the substituents at carbon atoms 3 and 4 by a tetramethylene bridge. The alkyl tives were prepared by condensing lkyl halide (iodide) with 1-phenylhydroindazolone in boiling alcoholic c potash solution. In addition to the l and ethyl derivatives, the new

Compound	Description	Analysis	
		Found	Calculated
-Propyl-1-phenyltetrahydroindazolone (A, R = $-CH_2-CH_2-CH_3$)	needles (aq. alcohol) m.pt. 65·6° C.	C, 75·5 H, 7·8 N, 10·9	75·5 per cent. 7·8 ,, 10·9 ,,
-Propyl-1-phenyltetrahydroindazolone (A, R = CH CH$_3$ CH$_3$)	Plates (aq. alcohol) m.pt. 81° C.		
-Amyl-1-phenyltetrahydroindazolone (A, R = $-(CH_2)_4-CH_3$)	prisms (ether) m.pt. 84° C.	C, 76·1 H, 8·5 N, 9·9	76·3 per cent. 8·4 ,, 10·1 ,,
llyl-1-phenyltetrahydroindazolone (A, R = $-CH_2-CH=CH_2$)	prisms (ether) m.pt. 65° to 67° C.	C, 11·2 H, 75·6 N, 7·1	11·0 per cent. 75·2 ,, 7·5 ,,
Benzoyl-1-phenyltetrahydroindazolone (A, R = COPh)	needles (aq. alcohol) m.pt. 110° C.	C, 75·7 H, 5·8 N, 9·0	75·5 per cent. 5·7 ,, 8·8 ,,

unds detailed in the table given above prepared.

butyl derivatives and the *iso*-amyl tives were obtained as oils and were rther examined. The benzoyl derivas obtained by condensing benzoyl de with 1-phenyl tetrahydroindazolone idine. Incidental to the investigation sulphonamide derivatives were pre- since it was thought that the ce of two adjacent nitrogen atoms give rise to interesting compounds of lass. A sulphonamide (m.p. 272° to C.) was prepared from 1-phenyl-2-l-tetrahydroindazolone by condensawith chlorosulphonic acid and subsetreatment of the resultant sulphonyl de with ammonia. The reaction prod smoothly and the authors consider lphonamide group attaches itself to phenyl group, giving 1-(*p*-benzene onamido)-2-mathyltetrahydroindazo- The oral toxicities of 1-phenyl-2-l-tetrahydroindazolone and 1-phenylzoyl-tetrahydroindazolone were deterl on rats and mice. These results are tabulated in the paper. The toxicities indicate that 1-phenyl-2-methyl-tetrahydroindazolone is slightly more toxic to rats and mice than amidopyrine, does not produce convulsions, but is somewhat soporific. The LD50 is approximately 1·5, against 1·8 (mgm./gm.) for amidopyrine. 1-phenyl-2-benzoyl-tetrahydroindazolone is also without convulsive action; it is only slightly soporific and much less lethal than amidopyrine or the 2-methyl compound. For rodents its LD50 is of the order of 5·0 mgm./gm. There were indications from a few clinical trials that the 2-methyl compound interferes in continued dosage with the blood-picture of the subject, and further laboratory experiments are in progress to investigate the effects of prolonged dosage with these pyrazolone derivatives.

"CHEMLINS."—"We, of the chemical industry, feel that too little attention has been paid to our personal bugaboo, the chemical gremlin, more affectionately known as the 'Chemlin.' . . . Anyone that has had any connexion with a chemical plant will . . . take care that a saucer of warm acid is left at the back doorstep every night lest the Chemlin vent his wrath on the whole plant. A Chemlin's favourite sleeping place is in the stem of a pressure gauge."—A correspondent in "Chemical and Engineering News."

BRITISH STANDARDS INSTITUTION

THE annual meeting of British Standards Institution was held on July 20, when the chairman (Sir Percy Ashley, K.B.E., C.B.) welcomed to the chairmanship of the Chemical Division Mr. C. F. Merriam (chairman, Association of British Chemical Manufacturers) in place of Mr. R. Duncalfe.

Increased Grant-in-Aid

He said the 8,000 or so members of B.S.I. committees, who gave their time voluntarily, often travelling far without reimbursement of expenses, would feel gratified that, following the recognition of the Institute by the Government as the sole organisation for the issue of standards having a national application, the Government had now decided to increase substantially the grant-in-aid. During the coming year this would be approximately £12,500, or nearly double the former grant. There were in current use today about 1,500 British Standards, and d the year under review 230 new and re standards or amendments had been is The chairman added: "I believe those industries which have been lon closely associated with the developme the Institution recognise fully the adva of having a single, independent, nat standards organisation. But those o which are only now beginning to cor the opportuneness of the time for a dardisation programme covering type sizes, trade terms, definitions, and formance standards, may feel that preparation and promulgation of stan is a matter of purely domestic concer should therefore be carried out solel their individual trade associations. has also been some tendency for Govern Departments to do standardisation wo their own ways and on their own lin believe that both these courses are wr

INSTITUTE OF PHYSICS

THE report for 1942, which has just been issued, shows that special attention has been given by the Board of the Institute of Physics to the supply of physicists for war purposes. The Board's views, it is recorded, not only coincided in almost every respect with those of the Government's Technical Personnel Committee, but are being embodied in the measures that are being taken. Attention has also been given to the best way of providing for intending physicists after the war an education that will enable them to make their fullest contribution to the service of the community. A report on this matter was prepared by a subcommittee under the chairmanship of Sir Lawrence Bragg, and its report, after being approved and adopted by the Board of the Institute, has recently been published. The report represents the considered views of teachers in the Universities and Technical Colleges, and of the heads of Government and industrial research establishments. During the year a record increase in membership took place. Among new activities recorded are the establishment of an electronics group, and of a Joint Council of Professional Scientists, of which the Institute is one of the principal constituents. Exchange of information concerning physicists and their relation to the war effort has continued between the Institute and the American Institute of Physics. At the annual meeting of the Institute held on July 22 following were elected to take offic October 1: *President*, Sir Frank Sr *Vice-presidents*, Mr. E. R. Davies, Dr Makower, and Mr. T. Smith; *Treas* Major C. E. S. Phillips; *Secretary*, Prof J. A. Crowther; *Ordinary Member Board*, Professor J. D. Cockcroft, Mr. Gall, Dr. H. Lowery, Messrs. D. A. O. A. J. Philpot, and R. S. Whipple.

COMMERCIAL NOTES

Imports of Medicines into Portug H.M. Representative in Lisbon has rep that, under regulations issued by the P guese Regulating Commission for Che and Pharmaceutical Products, applica for approval of the prices of new fo patent medicines must be accompanie a certificate of origin, showing that medicines are legally manufactured sold in the country of origin. The se price to the public in the country of o must also be certified.

Old Price Lists.—Most of the old trade price lists are not now reliabl account of purchase tax and other char they should go to salvage and be repl by a copy of the *C. & D.* Price Lis Medicinal Proprietaries, an announce about which is given on p. 145.

TRADE REPORT

quotations for pharmaceutical chemicals, crude drugs and essential oils represent rices for wholesale quantities of standard quality. C.i.f. quotations do not include e war risk insurance and other abnormal charges payable in the present emergency

28 Essex Street, W.C.2, August 4

bank holiday over, and most of those took the opportunity for a few days' e back at work, events on the war s are giving food for contrasting lations. There is the possibility that n citrous oils, particularly lemon, may become available to British users. absence of this oil has been acutely nd the shortage has not been wholly good—so far as quantity is concerned m the Californian source. It may be dered probable, however, that the very ing problems which prevented the rtation of considerable quantities merican oil will work towards the ation of the Sicilian material in the future, in order to avoid the waste- ss of empty holds on homeward eys from the scene of Mediterranean ities.

other speculation that must arise hether, after the aerial battering burg has recently received, it will arise nix-like from its ashes to be as consider- a rival to London in the capacity of a exchange as it became between the wars. A factor that may have a ng on this question is the creation for purposes of semi-official buying and buting groups such as the Botanical Importers' Section and Essential Oil rters' Section of the London Chamber ommerce. It seems unlikely, in the of the general tendencies of the age, there will be an immediate reversion e individualism of earlier days; and bly a more co-operative method of ng with the raw materials of the drug for a little time after the war is l might bring a new importance to on as a conveniently placed centre of ly and negotiation.

no section of the markets has there any important change during the week. RMACEUTICAL CHEMICALS prices are y. In the CRUDE DRUGS market ries for CASCARA SAGRADA remain tisfied. Supplies of other commodities not increased. To the holiday quiet- in ESSENTIAL OILS there is added a er lack of activity resulting from the ne of control which is now in oper- l.

Exchange Rates on London

During July there have been no changes in the London valuations of the principal foreign currencies. The Bank of England fixed rates include: New York, 4.03 dollars; Montreal, 4.45 dollars; Buenos Aires, 17.02 paper pesos; Dutch West Indies, 7.60 florins; Lisbon, 100 escudos; Stockholm, 16.90 kroner. The Chinese National dollar is valued at $3\frac{1}{32}$d. and Madrid pesetas are at 40.50 to the £ sterling.

Pharmaceutical Chemicals

ACETANILIDE.—Reasonable supplies are stated to be available at 2s. 5d. per lb.

ALLOBARBITONE.—Makers' price remains at 60s. per lb.

ASPIRIN.—Quantities of 28 lb. to 1 cwt. are priced per lb. as follows (containers in brackets): 4s. (1-lb.); 3s. 10½d. (4-lb.); 3s. 9½d. (7-lb.); 3s. 9d. (14-lb.); 3s. 8½d. (28-lb.). Prices net one month.

BENZOIC ACID.—May be had for essential pharmaceutical and medicinal purposes at from 2s. 6d. to 3s. per lb., as to quantity.

BORIC ACID.—Makers' quotations are as follows: B.P. granulated, £60 15s. per ton; crystal, £61 15s.; powder, £62 15s. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards. Commercial grades, £8 per ton less.

GUAIACOLS.—CRYSTALS and CARBONATE would be worth about 14s. to 15s. per lb.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gram in brackets): ALKALOID, 1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (4s.); HYDROCHLORIDE, HYDROBROMIDE and SULPHATE, 1 oz., 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

MAGNESIUM OXIDE, LIGHT.—Makers' prices per lb. for the home market, for quantities of 28 lb.–1 cwt., are as follows (containers in brackets): 2s. 8d. (1-lb.); 2s. 6½d. (4-lb.); 2s. 5½d. (7-lb.); 2s. 5d. (14-lb.); 2s. 4¾d. (28-lb.).

MAGNESIUM TRISILICATE.—Makers quote for the home market, in quantities of 28 lb.–1 cwt., as follows (containers in brackets): 3s. 6½d. per lb. (1-lb.); 3s. 5d. (4-lb.); 3s. 4d. (7-lb.); 3s. 3½d. (14-lb.); 3s. 3d. (28-lb.).

MANDELIC ACID.—MANDELATES are quoted as follows: SODIUM and CALCIUM—4 oz., 8 oz. and 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb., net. AMMONIUM (50 per cent. solution)—4 oz., 8 oz. and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 7 lb., 9s. 10d.; 14 lb. (in 7-lb. packages), 8s. 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. per lb. net. Packages extra and returnable.

PILOCARPINE.—Quotations per oz are as follows: BASE, 1 oz., 27s.; 4 oz., 26s. 6d.; 25 oz., 26s.; HYDROCHLORIDE, 1 oz., 21s. 3d.; 4 oz., 20s. 9d.; 25 oz., 20s. 3d.; NITRATE, 1 oz., 18s. 6d.; 4 oz., 18s.; 25 oz., 17s. 6d.

SODIUM BENZOATE.—Reasonable supplies are stated to be available. Price, 2s. 9d. to 3s. per lb., according to quantity.

TARTARIC ACID.—British makers quote at 3s. 4½d. per lb., less 5 per cent. discount.

TERPINEOL.—May be obtained for medicinal use at from 3s. 6d. to 4s. per lb.

Crude Drugs

AGAR.—Activity is slight, but some Kobe No. 1 is available for bacteriological use at 65s. to 70s. per lb.

ALOES.—Cape for manufacturing purposes has been in fair demand, but business has not resulted, owing to the absence of offers. The spot value is between 72s. 6d. and 75s. per cwt. Curaçao continues to be offered on spot at 475s. per cwt.

ANTIMONY.—No change in either price or supply position. English minimum 99 per cent. regulus, spot, £120 per ton, delivered; 70 per cent. crude for the home trade, £100 per ton, delivered.

BALSAMS.—*Tolu*, firm at 13s. 6d. per lb.; *Canada*, unchanged at 10s. 3d.; *Peru*, 8s. 6d.; no supplies of *Copaiba* available.

BELLADONNA.—Indian leaf, from 5s. to 5s. 3d. per lb., as to test. Root, from 4s. 6d. to 4s. 9d., also as to test.

BENZOIN.—A limited amount is available for making B.P. preparations. Fair-quality Sumatra block, spot, £22 10s. per cwt.; Free "almonds," £32, ex store.

CAMPHOR.—Supplies of both synthetic and natural imported by the Ministry of Supply are available for distribution to approved users. Re-sale prices for quantities under 7 lb. are awaited.

CARDAMOMS.—Inactive. Spot, Aleppy seed, 6s. 6d. per lb.; Aleppy greens, 5s. 6d.; split seed, 5s. 6d.

CASCARA SAGRADA.—There are no offers from origin to satisfy numerous inquiries.

CHAULMOOGRA.—*Hydrocarpus* oil, 1s. 3d. per lb., in bond Liverpool.

CHILLIES.—Good request for Mombasa; spot steady at 120s. per cwt. Zanzibar are not offered.

CLOVES.—Zanzibar unchanged at 1s. 5½d. per lb., spot; second grade, to arrive, 10d. per lb., c.i.f., sellers.

COCOA BUTTER.—Except when sold under licence, maximum official price is 1s. 5½d. per lb., ex factory or warehouse.

COCONUT (DESICCATED).—Maximum selling price is fixed by Ministry of Food Order at 49s. per cwt.

DIGITALIS LEAVES.—Portuguese, spot, 135s. per cwt.; English-grown, 2s. 6d. per lb.

DRAGON'S BLOOD.—Dull Zanzibar drop, £21 per cwt.

ELEMI.—Price of No. 1 gum on the continues steady at 330s. to 340s. per cw

ERGOT.—Quiet and unchanged. Portu spot, 4s. 9d. to 5s. 3d. per lb., accordi condition.

GALANGAL ROOT.—Quoted at 95s. per in bond, Liverpool.

GUM ACACIA.—Kordofan cleaned sorts q on spot at 95s. per cwt.; bleached, for ship 140s., c.i.f. A quantity of cleaned Tal offered at 55s., landed terms.

HENBANE LEAVES.—Medium leaves are ed on spot at between 200s. and 300s. per according to test.

IPECACUANHA.—Demand good but su inadequate. Matto Grosso, 22s. 6d. per Minas, B.P., 18s. 6d. to 18s. 9d., if avail under B.P. standard, 17s. to 17s. 6d. per l to test. Shipment offers unobtainable.

JABORANDI.—In limited compass on sp 60s. per cwt., ex store.

JALAP.—Spot prices are as follows: Bra root testing 16 per cent., 105s. per cwt. per cent., 95s.

KAMALA.—Small lots of material te 5 per cent. ash may be had at 1s. 9d. per l

LIQUORICE ROOT.—Approved buyers obtain Russian at 75s. per cwt. Anat natural, spot, 87s. 6d. to 92s. 6d., as to hold

MENTHOL.—Quiet, with nothing avai under 110s. per lb.; some holders ask 115s

MERCURY.—Prices are controlled at £68 to £69 15s. per bottle for quantities of over

MYRRH.—Good-quality Aden sorts, spot per cwt.; pickings, £10.

NUTMEGS.—West Indian, spot, wormy broken, 1s. 7d. per lb.; sound unasso 1s. 10d.

NUX VOMICA.—Cochin, washed and gar 42s. 6d. per cwt.; Cocanada, 37s. 6d.

ORANGE PEEL.—Bitter quarters, spot, 3s per lb.; good-quality thin-cut, spot, 4s. darkish, 4s.

PAPAIN.—Spot, nominal at 17s. 6d. per

PEPPERS.—Maximum prices of whole, picked over or cleaned, on sale to proces are 1s. 4d. per lb. for white and 1s. per lb black, both duty-paid.

PIMENTO.—Spot, 1s. 10d. per lb., sel shipment, unquoted.

PODOPHYLLUM.—Import licences are b granted for limited quantities.

PSYLLIUM SEED.—Spot price of Indian is unchanged at 1s. 3d. per lb., ex store.

QUILLAIA BARK.—Crushed or cut bark, s 100s. per cwt.; natural, afloat, 75s., c.i.f.

RHUBARB.—In fair demand, with pr unchanged. Rough-round, spot, 7s. 9d. to per lb.; flat high-dried, rough-coat, 8s 8s. 3d.; slightly wormy, a few pence Shensi pickings, 10s.

ONIN.—Spot, steady at 7s. 6d. per lb., re.

DS.—Quiet. CORIANDER.—Indian, 92s. s. 6d. per cwt. CUMIN.—Maltese, spot. 6d.; Indian, 112s. 6d. DILL.—160s., ex Glasgow; 170s., ex wharf London. EL.—Nominal at 90s. FENUGREEK.—be had at 82s. 6d. MUSTARD.—Controlled unchanged.

NA.—Position unchanged pending colla- f importers' returns.

ILL.—Quiet. Portuguese, easier on spot . per cwt.; Indian, 72s. 6d.

AMONIUM LEAVES.—Indian leaves may be n spot at 95s. per cwt., ex store.

OPHANTHUS.—Dealers can offer 100 per Kombé seed at 10s. 6d. per lb., with a price for large quantities.

AGACANTH.—In fair demand, with prices un- ed. No. 1, white, £130 per cwt.; No. 2, , £115; No. 3, white, £102; No. 4, white, pale leaf, £73; amber leaf, £65; dark , £50; brown leaf, £45; red-and-brown 38; red leaf, from £32; light hoggy, from woody and dark hoggy, £12.

RMERIC.—Quiet. Sound-quality Madras , spot, 60s. per cwt.; wormy, 57s. 6d.

ERIAN ROOT.—Indian quoted at 95s. per ex store.

XES.—BEES'.—Through Association of ant Distributors of Beeswax only. CAR- A.—Firm. Fatty grey and chalky grey, 430s.; Primeira, 530s. per cwt.

ential and Expressed Oils

SE (STAR).—Demand is fair, but supplies r limited to a few odd lots, at a price in gion of 70s. per lb.

ARWOOD.—English oil is unchanged at d 16s. per lb.; imported, if available, from 9s. per lb.

NAMON LEAF.—Around 15s. 6d. per lb.,

RONELLA.—Java, about 25s. per lb.; n, 21s. to 22s.

VE.—English distillers' prices for B.P. nged at about 14s. per lb.; imported, er, as to grade.

ONUT.—Fixed prices for bulk quantities s follows: Refined deodorised, £49 per refined hardened deodorised, £53, naked rks.

TONSEED.—Fixed price for bulk supplies ned edible is £57 per ton, and for refined rised, £58 per ton, both naked ex works.

TON.—Quoted at 9s. 6d. per lb.

CALYPTUS.—Spot supplies of 70 to 75 per limited; price, about 5s. 9d. to 6s. 6d. .

RANIUM.—Small supplies of genuine North n are to be had at 85s. to 90s. per lb.

GER.—English-distilled, 90s. per lb.

GERGRASS.—Spot, around 22s. 6d. per lb.

GROUNDNUT.—Refined deodorised, £58 per ton; refined hardened deodorised to 40°, £62; refined hardened deodorised to 50° to 52°, £63, all naked ex works.

LEMONGRASS.—Dealers quote at from 15s. to 16s. per lb., spot.

NUTMEG.—Oil from West Indian nutmegs may be had at about 42s. per lb.

PALM.—Refined deodorised, £55 per ton; refined hardened deodorised, £58 per ton, both naked ex works.

PALM KERNEL.—Refined deodorised, £49 per ton, naked ex works; hardened refined deodorised, £53.

PENNYROYAL.—Spot, if available, 40s. to 45s. per lb.

PEPPERMINT.—Supplies scarce; 102s. 6d. per lb. mentioned as the price for Chinese oil.

PETITGRAIN.—In small supply in London at about 25s. per lb.

RAPESEED.—£60 per ton, naked ex works.

ROSEMARY.—Spot, about 16s. per lb.

SPIKE.—Any available supplies would fetch about 32s. 6d. per lb.

THYME.—In short supply. High-grade oil would be worth around 25s. per lb.

VETIVERT.—Spot, about 95s. per lb.

Synthetics and Isolates.—Supplies of many of these products remain short and are not necessarily available because prices are quoted. In some cases all available stocks are required for essential purposes. AMYL ACETATE.—Pure, about 130s. per cwt.; technical, 109s. per cwt.; small quantities would be worth up to about 2s. per lb. AMYL CINNAMIC ALDEHYDE.—In the region of 27s. 6d. per lb. AMYL SALICYLATE.—About 5s. per lb. AUBEPINE.—Perfumery grade, 50s. per lb. BROMSTYROL.—100 per cent., about 30s. per lb. BUTYRIC ACID.—Now being manufactured in England; price about 7s. per lb.; esters from British-made butyric acid are also available. CINNAMIC ALDEHYDE.—Quoted at around 9s. per lb. CITRAL.—Chemically pure, about 55s. per lb. CITRONELLAL.—Rather dearer at about 55s. per lb. CITRONELLOL.—About 70s. per lb. Both nominal at 60s. to 70s. per lb. COUMARIN.—Quoted at approximately 17s. 6d. per lb. ETHYL PHTHALATE is not quoted. EUCALYPTOL.—About 13s. per lb. EUGENOL.—Around 23s. 6d. per lb. GERANIOL.—About 60s. per lb., ex palmarosa oil. GERANYL ACETATE.—Approximately 65s. per lb. IONONE.—100 per cent., around 75s. per lb. ISO-EUGENOL.—About 25s. 6d. per lb. RHODINOL.—From African geranium oil, about 150s. per lb.

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the *C. & D.*, 17 Argyle Street, Bath, Somerset.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

The C.P.W.C. and Call-up

SIR,—One reads with regret in the *C. & D.*, July 31 (p. 106) of the attitude of the Central Pharmaceutical War Committee towards the local committees in two of the larger centres of population in this country. It is regrettable that one of the most heavily bombed cities should be steadily deprived of a large portion of its pharmaceutical service by a London committee which appears by its action to show neither sympathy nor insight in the conditions prevailing locally. Is it the desire of the C.P.W.C. to kill private enterprise by depriving proprietors of their staffs? Have they considered what will happen if the proprietor is forced to close down by reasons of ill-health? Do they care what happens to a war-torn population if the coming winter is a hard one? It is to be hoped that the employers and the employees' organisations will take note of this attitude of the C.P.W.C., and see that the persons involved have a straight deal, and chance of rehabilitation before company shops after the war. The Coventry Committee is to be congratulated on its action.

Yours faithfully,
MEDICALLY EXEMPT.

Industrial Research

SIR,—The authors of the valuable statement on the organisation of industry referred to in your issues of July 24 (p. 93) and July 31 (p. 108) seem to have thought of everything relevant within their chosen limits, and have expressed their views concisely. In one subject, industrial research, a more detailed exposition of policy would have been welcome. From the passage allotted to this matter (Section 98) it is not clear what classification of industrial research is envisaged, nor how the work of the various authorities responsible for its direction is to be co-ordinated. Again, one would have expected a mention of the Department of Scientific and Industrial Research of the Privy Council and of the Industrial Health Research Board, which are virtually certain of a place in the picture when any comprehensive scheme is inaugurated. The rank and file in industry should, I believe, be encouraged to contribute suggestions for subjects of inquiry: some of those selected by the Industrial Health Research Board in past years have seemed more theoretical than pract The integration of existing activities of kind with new ones may prove to l complex problem.—I am, etc.,

LECTO

C. & D. DISPENSING PRICE L

THERE was no change in the index co drugs in July, the figure remaining 134·4. The prices for the new ointm in the B.P. Sixth Addendum are adde the changes in prices during July.

Cost		*Due allowance has been made for purchase tax in both cost and dispensing prices*	Dispensin price	
d.	*per*		4 oz.	1 oz.
			s. d.	*s. d.*
54	lb.	Alcohol lanæ B.P. Add.	2 0	0 8
28	lb.	Aloe capensis ..	1 0	0 4
22	oz.	Bromoformum ..	—	6 7
210	lb.	Copaiba	7 9	2 4
54	lb.	Elixir ethylmorph. et terp. P. 1 (13)	2 3	0 9
25	oz.	Ext. fellis bovini ..	—	4 0
26	oz.	Ext. fellis bovini pulv.	—	4 2
222	oz.	Ext. hydrastis sicc.	—	—
29	lb.	Lin. methyl. sal. oleos.	1 4	0 6
126	oz.	Menthol	—	—
70	oz.	Ol. anisi	—	10 3
11	oz.	Ol. cadinum ..	—	1 8
26	oz.	Ol. citronellæ ..	—	3 9
66	oz.	Ol. pulegii exot. ..	—	9 8
42	lb.	Paraffinum No. 7 ..	1 7	0 7
19	lb.	Pasta zinci oxid. co.	0 9	0 3
41	lb.	Potassii acetas gran.	1 6	0 6
105	oz.	Procain. hydrochlor. S. 1 (4)	—	—
28	oz.	Rhei rhiz. "E.I." pulv. elect. ..	—	4 5
28	oz.	Salol	—	4 5
27	lb.	Ung. sulphur is compositum	1 2	0 5
27	lb.	Ung. alcohol lanæ.	1 2	0 5
19	lb.	Ung. aquosum ..	0 10	0 3
20	lb.	Ung. acid. boric. ..	0 10	0 3
26	lb.	Ung. acid. salicyl.	1 2	0 5
66	lb.	Ung. acid. tannic.	2 8	0 10
34	lb.	Ung. dithranol. ..	1 6	0 6
32	lb.	Ung. hamamelidis	1 5	0 6
150	lb.	Ung. hydrarg. ..	5 10	1 8
33	lb.	Ung. hydrarg. ammon. P. 1 (9)	1 4	0 6
54	lb.	Ung. hydrarg. oleat. S. 1 (5)	2 3	0 9
108	lb.	Ung. hydrarg. subchlor. ..	4 3	1 3
18	lb.	Ung. sulphuris ..	0 10	0 3
48	lb.	Ung. zinci oleat. ..	1 11	0 4
18	lb.	Ung. zinci oxid. ..	0 10	0 3
18	lb.	Ung. zinci oxid. anhyd.	0 10	0 3

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T.R

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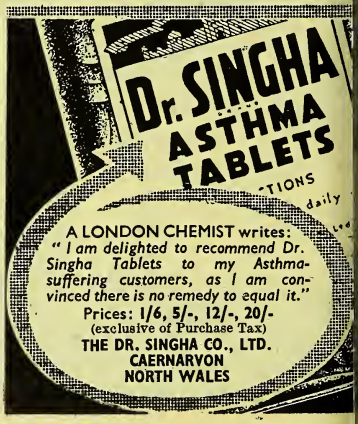

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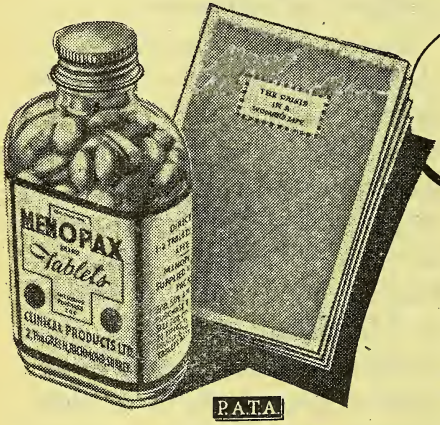

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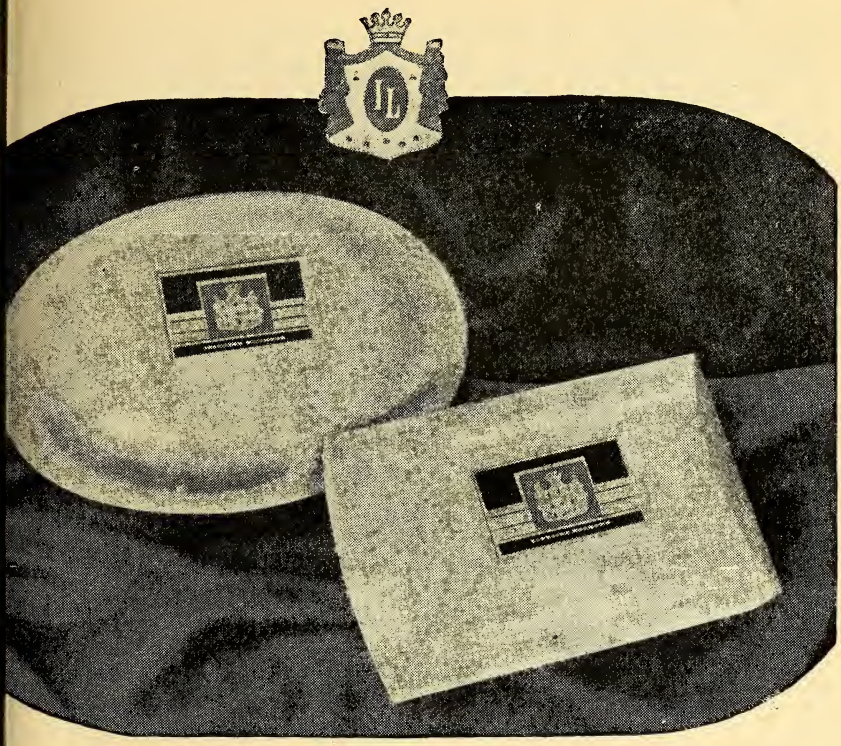

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